

LOWAR OR CHOLUM. (<i>Borghum Vulgare.</i>)	BAJRA OR CUMBU. (<i>Pennisetum typhoidum.</i>)
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[illegible]

2044a

OF 40 BEERS.

MARUA OR RAGL. (<i>Elessius Corocana.</i>)			KANGNI OR KAKUP. ITALIAN MILLET. (<i>Setaria italica.</i>)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
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the undermentioned Marks of Bengal on the 30th September, 1890.

MARKS.	GRAM, CHANA, CHEROLA, KUMILAY OR SURAGA. (Over Arakanam.)			INDIAN CORN OR MAIZE. (See Keys.)			ARAB OR RICE. CAJAN PEA. (Cajanus indicus.)			PINEWOOD.			BAIT.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.
	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.	R. A. F.
Calcutta.	8 11 2 0 7	2 6 8 1 13	4 1 14 8 2 4	3 2 5 4 2 4	6 3 0 9 0 5	9 0 5 9 0 5	9 0 5 9 0 5	9 0 5 9 0 5	9 0 5 9 0 5	9 0 5 9 0 5	9 0 5 9 0 5	9 0 5 9 0 5	9 0 5 9 0 5	9 0 5 9 0 5	9 0 5 9 0 5
Bengalunge.	3 8 0 2 4 0 3 4 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca.	3 0 0 3 0 0 3 0 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Narsingunge.	3 8 0 3 8 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chittagong.	2 14 0 3 8 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Patna.	3 0 0 2 0 0 1 13 6 1 13	0 2 1 0 1 13	6 2 1 0 2 0 0	1 12 0 0 6 0 0 6 0 0	5 0 3 10 0 3 9 6	3 13 0	...	...	...	...	...	...	...	...	...
Balsore.	3 13 0 2 12 0 2 12 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pooree.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuttack.	2 10 0 2 10 0	1 11 0	...	...	...	...	...	...	...	...	...	...	...	...	...

Published for general information.

C. E. BUCKLAND,
Offy. Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.												
			AIR PRESSURE.			WIND.		TEMPERATURE.							
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
ORIGINAL.	Pooree	Pooree	29.833	29.845	—	?	271	89.7	3rd Oct.	76.6	29th Sep.	87.9	78.7	83.3	—
		Gopalpore	29.822	29.844	+0.022	NW	271	89.2	3rd	76.8	29th	87.5	78.7	83.1	—1.0
		False Point	29.834	29.846	+0.012	SW	240	87.9	3rd	74.6	29th	86.8	76.7	81.8	—1.6
	Outback	Outback	29.747	29.849	+0.102	SSW	51	93.4	3rd	76.3	29th	80.3	77.3	83.3	—1.2
	Balasore	Balasore	29.787	29.846	+0.059	Calm	106	89.4	3rd	72.8	27th	85.8	76.9	81.4	—0.7
SOUTH-WEST BENGAL.	South-West Midnapore	Saugor Island	29.822	29.848	+0.026	SE, WSW	343	88.7	1st	77.0	29th	87.0	78.6	83.8	—0.6
	Midnapore	Midnapore	29.686	29.830	—0.144	S	226	93.2	3rd	73.1	27th	87.0	76.0	81.6	—0.8
	24-Pergunnahs	Calcutta	29.833	29.856	+0.023	SW	72	88.5	3rd	71.7	27th	85.6	74.7	80.2	—2.3
	Howrah	Howrah	29.761	29.863	+0.102	S	94	91.6	3rd	74.9	27th	86.6	77.1	81.9	—2.1
	Hooghly	Hooghly	29.618	29.817	—0.199	Variable	100	91.6	3rd	73.1	27th	86.1	75.7	80.4	—2.1
	Burdwan	Burdwan	29.518	29.818	+0.300	SE	86	91.5	3rd	72.9	27th	86.3	75.9	81.1	—1.6
	West Burdwan	West Burdwan	29.789	29.867	+0.078	S	97	89.1	3rd	72.8	29th	84.4	75.4	79.9	—3.7
	Moorshedabad	Krishnachar	29.802	29.851	+0.049	WSW	127	90.5	3rd	72.8	27th	86.6	76.3	80.9	—2.0
	Nuddea	Nuddea	29.628	29.862	+0.234	Calm	115	90.7	2 & 3	75.4	27th	87.9	78.0	82.0	—0.8
	Jessore	Jessore	29.806	29.897	+0.091	Variable	61	90.7	3rd	74.7	27th	88.0	78.6	83.3	+1.7
EAST BENGAL.	Chittagong	Chittagong	29.806	29.897	+0.091	Variable	61	90.7	3rd	74.7	27th	88.0	78.6	83.3	+1.7
	Chittagong Hill Trac	Demagiri	29.858	29.870	+0.012	SE	83	91.3	3rd Oct.	78.9	27th	87.7	77.5	82.0	+0.7
	Backergunge	Backergunge	29.858	29.890	+0.032	Variable	130	88.0	2 & 3	78.8	27th	86.1	76.9	81.9	—0.6
	Noakholly	Noakholly	29.841	29.883	+0.042	South-easterly.	113	88.5	3rd	76.9	27 & 29	86.1	77.6	81.8	—0.4
	Farrukpore	Farrukpore	29.846	29.890	+0.044	SE	122	91.1	3rd	74.2	27th	88.7	77.3	83.0	—0.4
	Dacca	Dacca	29.854	29.890	+0.036	Southerly	70	89.4	3rd	73.8	27, 29 & 1st Oct.	87.6	74.8	81.2	—1.4
	Comilla	Comilla	29.819	29.876	+0.057	N	112	89.2	3rd	71.1	27th Sep.	80.3	73.7	79.6	—2.3
	Mymensingh	Mymensingh	29.780	29.844	—0.064	Calm	92	89.3	3rd	71.6	28th	83.8	73.9	79.9	—3.3
	Bogra	Bogra	29.816	29.862	+0.046	North-easterly.	85	90.1	3rd	71.7	29th	85.9	75.2	80.6	—1.7
	Pabna	Pabna	29.780	29.851	+0.071	Variable	114	88.3	3rd	73.6	27th	84.1	76.2	80.8	—1.9
NORTH BENGAL.	Maldah	Maldah	29.773	29.855	+0.082	SE	98	90.7	3rd	70.6	28th	84.5	74.2	79.4	—4.1
	Dinapore	Dinapore	29.746	29.867	+0.121	NE	73	90.6	3rd	67.0	28, 29	83.4	73.6	77.5	—0.4
	Rungpore	Rungpore	29.761	29.838	+0.077	E	116	89.3	3rd	66.7	28th	83.1	71.6	77.5	—4.6
	Jalpaigore	Jalpaigore	29.694	29.888	+0.194	?	211	85.9	2nd	68.6	28th	82.6	71.0	76.9	—5.0
	Cooch Behar	Cooch Behar	29.613	—	—0.022	ENE	122	64.6	2nd	46.2	28th	59.8	49.6	54.8	—3.5
	Darjeeling Hill Tracts	Darjeeling	29.728	29.857	+0.129	ENE	121	89.2	3rd	66.0	28th	83.5	71.6	77.2	—3.9
	Purneah	Purneah	29.661	29.845	+0.184	Variable	189	89.3	3rd	65.2	28th	81.4	72.9	77.2	—
	North Bhagulpore	North Bhagulpore	29.698	29.893	+0.195	Easterly	165	89.9	3rd	66.5	28th	82.2	72.4	77.3	—0.8
	Moanerpore	Moanerpore	29.645	29.876	+0.231	W. W.	149	91.2	3rd	67.8	28th	82.8	72.0	77.4	—0.5
	Chumpra	Chumpra	29.641	29.831	+0.190	E	109	92.8	1st	69.2	28th	84.4	74.4	79.4	—3.9
SOUTH BENGAL.	Shahabad	Shahabad	29.479	29.840	+0.361	Variable	179	89.3	3rd	67.5	28th	81.8	72.1	76.6	—0.9
	Barisal	Barisal	29.601	29.851	+0.250	N. easterly.	179	89.4	3rd	67.3	27th	81.0	72.1	76.6	—0.7
	Arrah	Arrah	29.601	29.837	+0.236	NE	37	89.9	3rd	67.7	28th	81.0	72.6	77.1	—0.8
	Gya	Gya	29.463	29.846	+0.383	E	130	90.4	3rd	68.8	28, 29	81.9	74.2	78.5	—0.1
	Patna	Patna	29.607	29.853	+0.246	E	193	89.3	3rd	68.2	28th	81.4	73.3	77.4	—0.7
	South Bhagulpore	South Bhagulpore	29.668	29.812	+0.144	Calm	108	90.7	3rd	68.5	27th	83.0	72.7	77.9	—0.8
	North Bhagulpore	North Bhagulpore	29.342	29.846	+0.504	SE	123	90.6	3rd	71.3	29th	84.1	74.5	79.3	—2.4
	Hazratbagh	Hazratbagh	27.816	29.845	+0.029	Westerly	109	85.4	3rd	64.8	28th	78.8	68.8	73.8	—0.3
	Lohardugga	Lohardugga	27.896	29.845	+0.049	Calm	98	86.0	3rd	64.9	28th	78.9	67.3	73.1	—3.3
	Manbhoon	Manbhoon	29.069	29.836	+0.767	Variable	21	90.4	3rd	72.7	28, 29 & 1st Oct.	80.5	73.8	79.7	—1.6
ASSAM.	Sibsagar	Sibsagar	29.187	29.928	+0.741	SW	—	90.1	2nd	70.9	30th Sep.	80.5	73.0	79.8	—1.6
	Dhubri	Dhubri	29.777	29.897	+0.120	NE	308	87.2	2nd	69.8	27, 29	80.8	72.6	77.3	—3.7
	Silchar	Silchar	29.796	29.902	+0.106	Calm	20	93.5	27th Sep.	69.3	27th	90.0	72.9	81.9	—0.6

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the years 1871 to 1890. The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by c and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the same years. The numbers in the district headings in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

the week ending Friday, the 3rd of October 1890.

DISTRICT OBSERVATIONS.															Representative station.	District.	Marginal Notes.
Year.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.												
			Mean for district.	Normal mean.	Since 1st of September.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.					
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
1856	4.9	0.87	1.84	1.69	10.04	10.97	+5.07	53.77	44.92	+8.85	2.3	2.5	Pooree	Pooree	Orissa.		
57	5.7	0.17											Gopalpore				
58	5.7	3.04											False Point				
59	5.6	0.12	1.35	1.45	16.81	9.93	+6.68	54.94	41.54	+9.44	2.0	2.5	Cuttack	Cuttack			
60	3.9	1.68	2.61	2.05	18.81	11.79	+7.11	51.54	47.10	+4.44	3.5	2.4	Balasore	Balasore	SOUTH-WEST BENGAL.		
61	3.9	1.24	2.24	1.85	13.28	12.09	+1.19	47.23	53.87	-6.64	3.3	2.8	Saugor Island	South-West Midnapore			
62	5.1	1.22	3.23	1.11	10.00	8.57	+1.43	44.74	40.71	-1.97	4.3	2.1	Midnapore	Midnapore			
63	6.0	8.95	5.77	1.13	9.53	8.99	+0.59	45.55	45.95	-0.10	3.2	2.3	Calcutta	24-Pargunnahs			
64	7.0	3.05	4.14	1.05	12.38	8.09	+4.30	55.55	42.25	+14.31	4.3	2.0	Burdwan	Howrah	SOUTH-WEST BENGAL.		
65	6.3	2.73	2.72	1.24	9.17	8.75	+0.42	46.80	48.39	-1.59	4.0	2.2	Bankura	Hooghly			
66	6.3	1.77	4.40	1.18	10.39	10.22	+0.17	55.01	41.31	+7.30	4.5	2.0	Raneegunge	West Burdwan			
67	7.4	5.52	5.31	1.32	10.09	10.83	-0.77	53.01	45.35	+7.14	4.4	2.3	Berhampore	Moorshedabad			
68	6.6	5.28	4.95	1.28	10.09	9.09	+1.00	45.25	44.58	+1.67	3.4	2.1	Krishnachar	Nuddea	SOUTH-WEST BENGAL.		
69	6.7	1.47	1.57	1.25	5.40	9.42	-3.93	45.75	45.24	-2.49	2.4	2.2	Jessore	Jessore			
70	3.1	Nil	0.39	1.88	11.41	15.05	-3.64	113.82	104.36	+9.26	1.5	2.8	Chittagong	Chittagong			
71	1.3	0.51	0.98	2.11	6.95	12.80	-5.85	61.14	69.51	-8.37	1.5	2.9	Demagiri	Chittagong Hill Tracts			
72	0.3	1.41	0.95	2.29	11.05	17.60	-6.75	89.07	97.41	-8.74	1.0	2.6	Barrisal	Backergunge	SOUTH-WEST BENGAL.		
73	4.1	0.29	1.00	1.34	4.01	9.21	-5.20	35.41	50.35	-12.14	2.0	2.3	Noakhali	Noakhali			
74	5.4	0.28	0.47	1.51	5.00	10.75	-7.09	52.82	54.88	-2.06	1.8	2.3	Furzedpore	Furzedpore			
75	3.9	0.27	0.53	1.96	5.61	12.03	-6.44	54.03	62.52	-8.49	1.8	2.0	Dacca	Dacca			
76	5.1	2.99	4.04	2.35	9.60	18.85	-4.00	66.74	63.22	+3.41	3.0	2.5	Commilla	Tipperah	SOUTH-WEST BENGAL.		
77	4.6	13.04	13.39	1.79	21.05	10.74	+10.31	67.39	52.50	+14.71	3.5	2.1	Mymensingh	Mymensingh			
78	5.4	9.54	6.55	1.49	12.40	10.58	+1.82	48.79	48.49	+0.40	3.5	3.0	Bogra	Bogra			
79	5.6	6.41	9.97	1.23	15.18	13.34	+1.84	64.03	49.27	+14.76	3.3	2.8	Serajpore	Fubna			
80	4.0	8.76	8.71	1.19	13.96	11.47	+2.49	51.84	50.13	+1.71	3.5	2.0	Rampore	Rajshahy	SOUTH-WEST BENGAL.		
81	3.3	10.59	10.53	1.40	15.41	12.02	+3.39	69.30	53.28	+16.02	2.4	2.2	Maidah	Dinapore			
82	3.9	15.44	17.83	2.17	27.07	14.21	+13.86	89.28	69.26	+20.02	3.8	2.1	Dinapore	Dinapore			
83	3.6	5.90	6.58	2.33	25.48	22.01	+3.47	140.27	104.92	+35.35	4.4	2.7	Rangpore	Rangpore			
84	6.7	9.06	6.88	2.41	23.37	19.68	+3.69	163.14	114.16	+48.98	4.8	2.9	Jalpigoree	Jalpigoree	SOUTH-WEST BENGAL.		
85	4.4	2.27	6.47	1.02	14.17	12.97	+1.20	74.46	55.94	+18.52	3.0	1.7	Ucoch Behar	Darjeeling Hill Tracts			
86	4.7	4.38	4.31	1.54	7.20	9.26	-2.16	59.80	39.44	+20.36	3.3	1.4	Purneah	Purneah			
87	4.0	4.40	4.26	1.57	7.22	9.09	-1.87	55.77	41.33	+14.44	3.0	1.5	North Bhagulpore	North Bhagulpore			
88	3.7	5.16	3.89	2.41	9.28	10.03	-0.75	62.04	45.61	+16.43	3.5	1.6	Moultehpore	Moultehpore	SOUTH-WEST BENGAL.		
89	4.5	4.40	2.50	2.16	8.48	8.54	-0.06	33.12	33.63	-0.51	2.3	1.8	Darbhanga	Darbhanga			
90	4.6	2.55											Motihari	Chumbarua			
91	6.1	3.69	3.44	0.90	7.63	7.63	+0.11	45.43	36.18	+9.25	3.0	1.6	Unupra	Sarus			
92	4.1	4.55											Dumrae	Shahabad	SOUTH-WEST BENGAL.		
93	7.0	5.25	3.39	0.91	4.86	7.05	-2.19	55.71	57.09	-1.38	3.5	1.4	Buxar	Buxar			
94	5.7	2.87	3.75	1.18	7.59	7.32	+0.27	46.78	37.43	+9.35	5.3	1.3	Arrah	Gya			
95	5.4	4.60	3.95	0.98	6.23	8.23	-2.00	50.17	39.37	+10.80	4.0	1.3	Gya	Patna			
96	4.9	9.08	3.82	1.15	7.35	10.63	-3.28	33.25	44.89	-11.64	4.3	1.6	Bankipore	South Bhagulpore	SOUTH-WEST BENGAL.		
97	6.1	2.93	2.14	1.14	7.22	9.52	-2.30	47.05	46.38	+0.67	4.5	1.8	Alongbyr	Alongbyr			
98	7.1	4.51	2.77	0.89	7.17	9.24	-2.07	40.15	45.05	-4.90	4.7	1.3	Doonah	South Pargunnahs			
99	6.9	1.93	2.18	1.20	7.74	8.76	-1.02	33.77	47.77	-14.00	4.0	1.3	Hasaribaga	Hasaribaga			
100	5.1	0.24											Barani	Barani	SOUTH-WEST BENGAL.		
101	7.3	15.28											Leonardpore	Leonardpore			
102	7.5	0.19											Manmohar	Manmohar			
103													Chayabasa	Singhpore			
104													Siunagar	Siunagar	SOUTH-WEST BENGAL.		
105													Dhubri	Dhubri			
106													Suchar	Suchar			
107																	

Years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional stations.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 3rd of October 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of September.	Average total rain-fall from 1st of September.	Total rain-fall since 15th May 1890.	Average rain-fall from 15th May to date.
			Saturday, 27th September.	Sunday, 28th September.	Monday, 29th September.	Tuesday, 30th September.	Wednesday, 1st October.	Thursday, 2nd October.	Friday, 3rd October.	Number of rainy days.	of Rainfall week.				
ORTISSA	Pooree	Pooree	0.71	0.11						2	0.82	16.30	10.68	55.79	
		Khurda								Nil	Nil	13.23	11.12	56.22	
		Banpur	1.75	0.56						2	2.31	18.52	10.16	50.95	
		Pale Point	0.47	0.27	1.23	0.63	0.44			5	3.04	16.16	11.89	52.14	
		Gop	1.53	1.32	0.12	0.14									
		Satpara		0.14	0.13										
		Pipili	1.45			0.31									
	Ootack	Jagatsingapore		1.46	1.41	0.19				3	3.06	17.83	9.51	52.09	
		Banki	0.63							1	0.63	13.99	9.38	54.37	
		Cuttack				0.13				1	0.13	21.01	10.60	71.66	
		Kendrapara		2.17		0.03	0.13			3	2.33	16.54	9.71	45.35	
		Jajpore	0.54		0.79					2	1.33	15.01	10.29	46.37	
		Dharmasia													
	Balasore	Satipore		1.25						1	1.25	11.85		43.74	
		Chandbali	1.35							1	1.35	13.74	11.88	43.11	
		Bhuddruk	1.45	0.03	0.15		1.05			4	2.68	16.52	11.26	48.08	
		Sorah	0.43	0.30	4.00	0.07				4	5.00	10.07	11.88	53.74	
		Balasore	0.27	2.20	0.02	0.04				4	2.53	22.89	12.48	54.70	
		Jellapore	0.68	2.00		0.36				3	3.04	22.03	10.85	54.94	
SOUTH-WEST BENGAL	Midnapore	Haripodah		0.10	0.25	0.36				5	1.01	18.55	12.08	55.12	
		Contai	0.57	0.79	0.66					3	2.02	15.11	11.88	45.87	
		Saugor Island	0.50	0.16	0.38					3	1.04	12.52	12.66	45.85	
		Tumlook	0.70	3.30	0.80					3	4.80	12.20	8.80	50.80	
		Midnapore	0.52	0.12	0.66	0.22				4	1.52	7.80	7.64	42.87	
		Ghatal	2.05	0.07	1.32	0.19				5	3.63	10.00	9.28	42.08	
	24-Pargunnah	Kurahaty	1.66	0.21	3.26					3	5.13	13.71		40.04	
		Garbatia			3.25	0.32				3	4.54	9.02		42.05	
		Diamond Har-bour	0.01	1.18	1.32	0.05				4	3.46	12.34	11.74	50.32	
		Canning Town	1.27		0.70	0.01				3	1.98	7.18		53.86	
		Alipore Jail	4.00	0.51	2.70	0.27				4	8.48	12.42	10.30	52.33	
		Barrackpore	2.57	2.09	2.40	0.08				4	7.14	9.13	7.80	42.50	
	Howrah	Dum-Dum	3.20	1.13	2.30					3	6.72	11.77	9.32	43.71	
		Barasat	2.47	1.16	0.63					3	4.26	9.63	9.52	43.67	
		Buseerhat	0.42		0.20					2	0.71	5.31	9.11	47.78	
		Howrah	2.30	0.92	3.21	0.22				4	7.25	9.95	8.03	44.28	
		Mohesra (Golobaria)	1.61	2.44	1.77	0.03				4	5.85	10.91	9.15	54.29	
	Hooghly	Serampore	1.20	4.03	1.93	0.10				4	7.30	10.53	8.46	45.86	
		Hooghly	1.22	3.08	1.95	0.08				4	7.43	12.33	7.71	46.88	
		Johanabad	2.04	0.03	0.85	0.08				4	2.99	4.33	9.48	43.36	
	Burdwan	Culina	0.22	2.35	1.10	0.03				4	3.70	10.91	7.11	50.14	
		Burdwan	1.40	0.06	1.50	0.03				4	3.05	11.00	8.34	51.47	
		Cutwa	0.33	4.10	0.07			0.00	1.08	5	5.07	15.21	8.81	58.04	
		Ranagunge	1.43	0.34	0.34					3	2.12	8.03	7.76	51.01	
		Manikpur	0.43	0.26	1.09					3	1.99	4.89		46.42	
	Bankura	Bankura	1.48	0.04	1.23					3	2.75	11.28	8.54	53.00	
		Bishenpore	0.76	0.06	2.34	0.36			0.21	5	3.73	10.11	9.48	46.20	
		Malara	1.82	0.19	0.10	0.06				4	2.17	7.63	6.98	53.31	
		Khatra	1.12	0.29	0.20		0.00			4	2.21	7.66	10.01	34.64	
		Indas	1.40		2.22	0.10				3	3.84	6.89		54.23	
		Kotalpore	0.55		2.05	0.15				3	2.75	6.63		50.26	
SOUTH-EAST BENGAL	Jharkhand	Anda	1.24	1.40					0.40	3	3.04	11.58		46.31	
		Gangajalhati	1.37	0.12	0.44					3	1.93	10.40		50.88	
		Baipore	2.65	0.12	0.57	0.56	0.33			6	3.79	9.64		47.68	
		Sonamukhi	0.46	0.24	1.37					3	2.57	9.00		48.23	
	Hazaribagh	Bh. Seery	2.29	0.40	0.20	1.58			0.01	5	4.57	8.58	10.64	55.59	
		Hetampore	2.23	0.43	1.07	0.17			0.51	5	4.41	12.09	11.16	51.03	
		Rampore Haul	2.44	1.18	2.78	0.18				4	6.50	12.89	11.31	54.29	
		Bolpore	2.02	0.26	1.80					3	4.08	10.25		52.20	
		Murari	0.85							1	0.85	7.00		49.35	
	Nuddea	Ranaghat	1.12	1.85	1.03	0.16				4	5.06	11.62	7.35	47.66	
		Kishnaghat	0.14	2.85	2.31	0.03				4	5.33	12.13	8.41	53.79	
		Chocadanga		3.40	3.25	0.08				3	5.73	8.08	10.23	56.81	
		Meherpore	0.40		3.55					2	3.95	9.10	8.60	45.61	
		Kooshtea	0.20	2.15	2.22	0.04				4	4.61	10.15	11.00	46.10	
	Kholna	Satkhira	2.61		0.06	0.02				3	2.69	6.83	9.37	50.00	
		Bagirhat	0.30							1	0.30	5.80	10.63	50.90	
		Kholna	0.46							1	0.46	4.80	10.25	44.80	
		Nakipur	1.19							1	1.19	9.04		50.94	
		Rampal	0.87							1	0.87	6.38		54.54	
	Jessore	Narail	0.15		0.64					2	0.79	1.03	7.56	39.44	
		Jessore	0.22	0.65	1.09	0.11				4	1.47	6.09	9.19	40.73	
		Jhenidah		1.02	2.14					2	3.16	7.13	9.57	43.21	
		Magoorah	0.19	0.05	0.57					3	0.81	2.44	8.19	38.25	
		Bongong	0.05	1.10	1.09					3	3.05	7.86	9.61	38.10	
	Moorshedabad	Kandi	0.79	1.73	4.35	0.20			0.53	5	7.60	13.20	10.14	59.81	
		Berhampore	0.55	0.74	2.57	0.02	0.43		0.11	6	5.32	9.08	11.54	52.15	
		Lalbagh	0.57	0.78	3.13	0.38	0.11			5	4.97	9.77	11.16	56.10	
		Azimnagar	0.50	1.10	2.03					3	3.63	9.68	10.11	51.43	
		Jungipore	1.05	1.02	1.65	0.20	0.20		0.04	6	4.06	7.77	11.00	43.11	
		Lakola	2.20	1.43	1.39	0.45				4	5.40	10.78	11.28	55.60	
EAST BENGAL	Chittagong	Jagunje													
		Akoriganj	1.60	1.23	1.65	0.29				4	4.87	11.28		55.36	
		Patkadari	1.20	3.00	1.00			0.10		4	5.30				
	Chittagong Hill Tracts	Cor's Bazar	0.64	0.10						2	0.74	11.70	15.92	124.00	
		Chittagong	0.03							1	0.03	11.01	14.18	124.94	
		Kutubdia	1.74							1	1.74	10.54		105.30	
		Satkania	0.37							1	0.37	10.01		77.91	
	Backergunge	Rangmati	0.27							1	0.27	7.03	14.04	65.20	
		Bume										15.17			
		Patuakhali	0.22							1	0.22	6.25	14.03	60.83	
		Perzepore	2.62	0.19						2	2.81	7.17	11.97	57.74	
		Burrisal	0.60							1	0.60	7.43	12.11	54.60	
		Bhola	0.25	0.05						2	0.30	4.51	13.05	58.15	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 3rd of October 1890—contd.

Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of September.	Average total rain-fall from 1st of September.	Total rain-fall from 18th May 1890.	Average rainfall from 18th May to date.	
			Saturday, 27th September.	Sunday, 28th September.	Monday, 29th September.	Tuesday, 30th September.	Wednesday, 1st October.	Thursday, 2nd October.	Friday, 3rd October.	Number of rainy days.	Rainfall week.					
SOUTH BENGAL.	Noakholly	Goursaddi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4.50	?	57.17	?
		Bouphal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8.02	?	64.32	?
		Noakholly	1.55	.....	.....	.....	.....	.....	.....	1	1.55	12.03	18.76	82.26	98.78
	Furzedpore	Fenny	0.35	.....	.....	.....	.....	.....	.....	1	0.35	9.16	10.51	98.87	96.73
		Harishpore	.....	.....	.....	.....	.....	.....	.....	2	0.77	2.97	?	69.48	?
		Ramganj	0.65	.....	0.12	.....	.....	.....	.....	2	0.77	2.97	?	69.48	?
	Dacca	Madsripore	0.23	.....	.....	.....	.....	.....	0.16	2	0.39	2.24	8.88	53.36	50.71
		Furzedpore	.....	0.25	.....	.....	.....	.....	1.36	2	1.60	5.59	10.51	43.42	53.08
		Goulundo	0.06	.....	0.94	.....	.....	.....	.....	2	1.00	6.17	9.09	38.41	47.83
	Hill Tipperah	Munshigunge	0.25	.....	.....	.....	.....	.....	.....	1	0.25	3.45	13.04	53.61	63.72
		Dacca	0.14	.....	.....	.....	.....	.....	.....	1	0.14	1.08	10.29	48.52	54.14
		Naraingunge	0.18	.....	.....	.....	.....	.....	.....	1	0.18	1.99	10.83	67.45	55.09
	Tipperah	Manickgunge	0.29	0.15	0.38	.....	.....	.....	0.34	4	1.51	7.21	8.25	52.83	45.46
		Joydebpore	0.58	.....	.....	0.57	.....	.....	.....	2	1.46	8.02	?	58.91	?
	Mymensingh	Agartola	0.45	.....	.....	.....	.....	.....	.....	1	0.45	3.32	11.70	56.28	58.04
		Comilla	0.23	0.05	.....	.....	.....	.....	.....	3	0.27	4.84	11.74	59.03	70.06
		Chandpore	0.80	.....	.....	.....	.....	.....	.....	1	0.80	4.52	13.27	51.06	69.02
	Mymensingh	Brahmunberia	0.80	.....	.....	.....	.....	.....	.....	1	0.80	4.92	12.10	49.27	58.02
		Ramchandrapore	0.21	.....	.....	.....	.....	.....	.....	1	0.21	5.87	?	67.66	?
		Nasirnagar	0.50	.....	.....	.....	.....	.....	.....	1	0.50	2.86	?	33.01	?
	Mymensingh	Daudkandi	0.15	.....	.....	.....	.....	.....	.....	1	0.15	2.90	?	25.23	?
		Kasba	.....	.....	.....	.....	.....	.....	.....	1	1.68	3.03	?	65.33	?
		Laksham	1.05	.....	.....	.....	.....	.....	.....	1	1.68	3.03	?	65.33	?
	Pubna	Kishoreganj	0.43	.....	0.66	.....	.....	.....	.....	2	1.09	7.08	14.21	62.77	64.51
		Atia (Tangail)	1.11	0.18	2.35	.....	.....	.....	0.88	4	4.32	5.55	10.20	47.54	50.10
		Mymensingh	0.54	0.35	2.00	.....	.....	.....	.....	3	3.89	9.88	14.79	60.12	67.92
	Pubna	Jamulpore	0.54	3.02	5.10	.....	.....	.....	.....	3	3.56	14.10	14.03	68.87	59.77
		Netrokona	1.10	1.00	0.30	.....	.....	.....	.....	3	2.40	10.60	14.41	65.08	74.42
		Subornahalla	.....	2.94	6.55	.....	.....	.....	.....	2	9.49	16.80	?	50.97	?
	Pubna	Durgapore	.....	2.35	.....	.....	.....	.....	.....	1	2.35	12.45	?	108.24	?
		Shorepore	1.08	1.81	4.94	.....	.....	.....	.....	3	7.83	12.68	?	57.93	?
		Dewanganj	2.42	6.30	.....	.....	.....	.....	0.55	3	9.27	10.40	?	62.43	?
	Bogra	Pubna	0.21	0.79	2.51	0.02	.....	.....	.....	4	3.53	8.85	11.71	41.54	49.16
		Serajganj	0.07	2.32	7.14	.....	.....	.....	.....	3	9.53	15.93	10.03	58.56	47.57
		Shorepore	0.48	3.10	5.90	0.02	.....	.....	.....	4	9.50	17.89	10.64	67.09	53.41
	Rajshahye	Nowkhilla	0.34	1.33	4.57	.....	.....	.....	.....	3	6.24	11.50	9.77	58.24	48.63
		Bogra	0.23	3.65	8.94	.....	.....	.....	.....	3	12.31	18.44	11.23	67.18	56.63
		Panchbibi	8.30	13.90	2.34	.....	.....	.....	0.15	4	24.49	28.61	11.54	78.56	51.60
	Malda	Beaulah	2.20	1.85	2.17	.....	0.03	.....	.....	4	6.31	10.83	11.65	60.96	48.12
		Natore	2.38	5.70	5.45	.....	.....	.....	.....	3	13.13	20.62	12.66	77.29	49.87
		Naogaon	5.00	5.08	.....	.....	.....	.....	0.39	3	10.47	14.24	13.01	56.91	49.80
	Dinagpore	Lalpor	.....	4.90	2.18	.....	.....	.....	0.32	3	6.47	11.00	?	44.04	?
		Masda	2.00	1.85	.....	.....	.....	.....	0.40	3	4.25	6.95	?	35.47	?
	Dinagpore	Maldah	3.45	5.05	1.25	0.01	.....	.....	.....	4	9.76	14.43	11.80	57.75	46.74
		Chanchal	3.00	4.60	0.05	.....	.....	.....	.....	3	7.65	11.47	11.15	51.29	53.49
		Gajol	6.36	8.40	0.15	.....	.....	.....	.....	3	14.91	21.95	?	77.88	?
	Dinagpore	Sibganj	1.26	2.40	1.82	0.05	.....	.....	.....	4	6.53	7.78	?	49.44	?
	Rangpore	Mohadebpore	7.80	8.80	.....	.....	.....	.....	.....	2	16.60	18.08	11.64	59.48	53.16
		Churamon	4.12	6.25	.....	.....	.....	.....	.....	2	10.37	16.44	13.20	70.50	50.11
		Haigunge	8.95	6.25	.....	.....	.....	.....	.....	2	18.20	15.75	11.77	78.98	54.91
	Rangpore	Dinagpore	2.93	6.44	0.42	.....	.....	.....	.....	3	9.79	14.00	12.33	72.02	59.37
		Balochhat	7.63	6.85	1.00	.....	.....	.....	.....	3	15.47	22.87	11.26	70.83	48.94
		Thakurgaon	1.57	7.57	0.11	.....	.....	.....	.....	3	9.25	18.42	?	89.78	?
	Jalpigore	Banwanigunge	7.05	27.00	0.95	4	35.45	43.07	12.94	103.75	57.90
		(Gyabanda)	0.45	7.05	27.00	.....	.....	.....	.....	3	15.18	23.56	14.78	76.61	69.61
		Rangpore	1.02	10.40	2.80	2.60	4	9.34	21.07	15.90	60.62	66.34
	Jalpigore	Kurigram	6.53	5.45	0.76	.....	.....	.....	.....	4	12.20	21.93	16.23	85.90	60.14
		Bagdogra	2.75	8.35	0.21	.....	.....	.....	.....	4	17.48	23.00	?	80.19	?
		(Nilphamari)	0.95	10.26	5.80	.....	.....	.....	.....	4	17.48	23.00	?	80.19	?
	Jalpigore	Ulipore	0.45	4	17.48	23.00	?	80.19	?
		Jalpigore		0.27	3.78	0.04	.....	.....	1.05	0.21	5	5.32	22.33	25.10	129.29	112.18
		Alipore		0.39	2.75	.....	.....	.....	1.00	1.18	4	5.32	22.33	?	175.38	?
	Oooch Behar	Falacotta	.....	3.60	.....	.....	.....	1.53	3	4.63	23.33	?	131.34	?	
		Dahiganj	1.50	5.65	0.07	.....	.....	0.86	4	5.08	23.66	?	103.34	?	
		Bhagatpore	.....	.....	.....	.....	.....	.....	.....	0.99	5	4.02	36.41	?	169.46	?
	Oooch Behar	(Nagarkatta)	0.09	2.20	0.42	.....	.....	0.29	0.29	4	6.79	23.68	10.17	112.26	89.93
		Dinhatia	0.87	5.21	0.42	.....	.....	0.29	0.29	4	6.79	23.68	10.17	112.26	89.93
		Oooch Behar	0.57	3.66	.....	.....	.....	0.29	0.29	4	6.79	23.68	10.17	112.26	89.93
	Darjeeling Hill	Mikilgunge	0.63	4.63	0.06	.....	.....	0.16	0.16	4	5.47	20.00	20.70	133.50	101.64
		Masbhangga	0.42	3.55	0.59	.....	.....	0.19	0.19	5	5.50	26.95	21.30	158.41	107.89
		Kuza	0.05	1.63	0.56	.....	.....	0.14	0.14	5	3.58	28.85	34.32	191.25	153.38
	Purneah	Siliguri	0.75	3.90	0.28	.....	.....	1.03	0.27	5	6.94	32.52	15.66	160.85	108.19
		Darjeeling	0.18	6.07	1.95	.....	0.01	0.25	0.25	5	9.08	16.35	18.10	139.98	100.55
		Kalimpang	0.10	4.22	1.28	.....	0.04	0.44	0.44	5	6.04	15.69	10.71	111.60	74.54
	North Bhagalpor	Kurseong	0.58	5.75	2.35	0.04	0.04	0.10	.....	6	8.66	23.89	?	179.91	?
		Kurseong	.....	.....	.....	.....	.....	.....	.....	3	7.70	16.31	14.60	92.06	68.76
		Kurseong	.....	.....	.....	.....	.....	.....	.....	4	5.73	17.04	14.44	77.70	60.25
	North Bhagalpor	Arrah	2.31	2.80	0.50	.....	.....	.....	0.41	3	7.27	20.90	14.77	52.88	67.67
		Purneah	2.50	4.67	0.10	.....	.....	.....	.....	3	7.27	20.90	14.77	52.88	67.67
		Gondwara	3.32	.....	.....	.....	.....	.....	.....	3	10.20	15.16	?	85.40	?
	North Bhagalpor	Balarampore	6.35	3.15	.....	.....	.....	.....	0.70	3	10.20	15.16	?	85.40	?
		Masari	.....	.....	.....	.....	.....	.....	.....	3	4.97	25.22	?	111.08	45.27
		Kaliaganj	1.00	2.44	.....	.....	.....	0.53	.....	3	6.17	7.57	10.93	61.80	64.98
	North Bhagalpor	Maddapore	0.02	5.25	.....	.....	.....	.....	0.69	3	6.17	7.57	10.93	61.80	64.98
		Boopool	0.33	5.40	0.08	.....	.....	.....	.....	4	5.89	9.46	10.15	46.74	?
		Protoganj	3.25	.....	.....	.....	.....	.....	.....	1	3.33	8.00	?	60.97	30.55
	Durbhanga	Tajpore	1.24	4.26	0.22	.....	.....	.....	.....	2	5.73	8.45	5.44	60.97	30.55

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 3rd of October 1890—conold.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of September.	Average total rain-fall from 1st of September.	Total rain-fall since 15th May 1890.	Average rain-fall from 1st May to date.
			Saturday, 27th September.	Sunday, 28th September.	Monday, 29th September.	Tuesday, 30th September.	Wednesday, 1st October.	Thursday, 2nd October.	Friday, 3rd October.	Number of rainy days.	of Rainfall week.				
NORTH BHAR	Chumpran...	Motihari	0.74	4.23	0.36	.....	.....	.....	.....	3	5.12	10.66	9.63	66.60	4.00
		Bettiah	0.60	1.68	0.14	.....	.....	.....	0.24	4	2.66	7.57	10.43	60.24	4.00
		Burkura	1.03	2.03	0.11	.....	.....	0.08	.....	4	4.13	9.26	?	56.33	4.00
SOUTH BHAR	Saran	Gopalgunge	2.43	1.09	.....	.....	.....	.....	.....	2	3.52	7.39	9.53	51.00	3.00
		Sowah	1.40	0.45	.....	.....	.....	.....	.....	2	1.85	11.61	9.33	59.03	3.00
		Chuprah	1.94	0.17	0.02	.....	.....	.....	.....	3	2.13	5.44	7.57	45.32	3.00
SOUTH BHAR	Shahabad	Buxar	2.64	0.44	0.22	.....	.....	.....	.....	3	3.30	8.46	7.67	50.67	3.00
		Behrue	2.33	0.43	0.09	.....	.....	0.03	.....	4	2.88	5.29	8.14	43.79	3.00
		Bhabooh	2.45	0.20	0.15	.....	.....	.....	.....	3	2.84	7.91	7.36	40.80	3.00
SOUTH BHAR	Bassein	Bassein	3.29	0.32	0.24	.....	.....	.....	.....	3	3.85	6.06	7.36	43.23	3.00
		Arrah	2.10	1.16	0.19	0.03	.....	0.59	.....	5	4.57	9.81	7.17	54.56	3.00
		Mohantah	1.00	.....	.....	.....	.....	.....	.....	1	1.00	6.60	?	36.07	3.00
SOUTH BHAR	Gya	Aurangabad	2.16	0.27	0.04	.....	.....	.....	.....	3	2.47	5.03	7.45	58.08	3.00
		Gya	2.96	2.09	0.18	.....	0.02	.....	.....	4	5.25	6.04	7.46	59.73	3.00
		Nowadah	2.04	.....	0.09	0.06	.....	.....	.....	3	2.19	3.80	7.34	54.41	3.00
SOUTH BHAR	Jehanabad	Jehanabad	2.68	0.72	0.15	0.10	.....	.....	.....	4	3.63	4.57	8.90	52.93	3.00
		Arwal	3.10	2.40	.....	.....	.....	.....	.....	2	5.50	6.60	?	55.43	3.00
		Daudnagar	1.00	1.00	.....	.....	.....	.....	.....	2	2.00	4.70	?	39.05	3.00
SOUTH BHAR	Sherrghati	Sherrghati	1.05	1.11	0.20	.....	0.25	.....	.....	4	3.31	4.96	?	36.09	3.00
		Rajauli	0.30	1.40	.....	0.90	0.25	.....	.....	4	2.85	3.74	?	45.06	3.00
		PakriBarwan	0.25	2.09	.....	.....	1.00	.....	.....	3	3.35	4.69	?	52.27	3.00
SOUTH BHAR	Patna	Patna	1.14	1.51	0.22	.....	.....	.....	.....	3	2.87	4.94	7.37	40.00	3.00
		Dinapore	2.40	0.55	0.05	.....	.....	0.07	.....	4	3.07	9.61	7.14	50.23	3.00
		Nehar	0.90	3.00	0.10	0.07	.....	.....	.....	4	4.07	7.98	6.61	45.85	3.00
SOUTH BHAR	Barh	Barh	0.70	4.00	0.30	.....	.....	.....	.....	3	5.00	7.80	7.97	42.00	3.00
		Bickram	3.60	0.38	0.11	.....	.....	.....	.....	3	4.07	5.63	?	56.07	3.00
		Hilsa	1.12	3.13	0.11	.....	.....	.....	.....	3	3.36	7.55	?	49.17	3.00
SOUTH BHAR	Monghyr	Bogossai	0.22	2.85	0.05	.....	.....	.....	.....	3	3.22	5.84	7.63	42.03	3.00
		Monghyr	0.24	2.02	0.08	0.03	.....	.....	.....	4	3.27	6.80	9.34	52.48	3.00
		Jamui	0.70	1.27	0.13	0.09	.....	0.12	.....	5	2.31	5.07	7.01	58.30	3.00
SOUTH BHAR	Gopri	Gopri	0.29	3.88	0.57	.....	.....	.....	.....	3	5.54	7.50	?	72.10	3.00
		Shikhpura	1.30	2.10	.....	.....	.....	.....	.....	2	3.40	4.13	?	45.79	3.00
SOUTH BHAR	South Bhagulpore	Bhagulpore	1.49	3.06	0.01	.....	.....	.....	.....	3	4.55	5.88	7.90	54.36	3.00
		Banka	0.38	1.66	0.07	0.06	.....	0.26	.....	5	2.45	3.76	8.65	38.74	3.00
		Kolgong	1.40	2.70	0.50	.....	.....	.....	.....	3	4.60	7.89	?	56.29	3.00
SOUTH BHAR	South Per gunnahs.	Rajmohal	2.37	4.75	0.63	.....	.....	.....	.....	3	7.64	10.61	12.55	43.27	3.00
		Godda	0.77	1.40	0.08	.....	.....	0.20	.....	4	2.45	5.85	10.06	45.29	3.00
		Pakour	2.65	1.96	0.71	0.06	.....	.....	0.16	5	5.54	10.87	13.32	62.12	3.00
SOUTH BHAR	Nya Doonka	Nya Doonka	0.59	0.94	0.45	0.10	.....	.....	.....	4	2.08	6.50	11.20	61.76	3.00
		Deoghar	1.11	1.09	0.38	0.18	.....	0.34	.....	5	3.10	5.69	9.25	45.59	3.00
		Jamtara	0.72	0.28	0.32	0.44	.....	.....	0.22	5	3.08	6.27	7.75	56.38	3.00
SOUTH BHAR	Mohagama	Mohagama	1.38	0.15	0.11	0.15	.....	.....	.....	4	1.79	3.11	?	45.53	3.00
		Nantat	0.71	0.41	1.11	.....	.....	.....	.....	3	2.23	4.43	?	37.32	3.00
SOUTH BHAR	Hamaribagh	Pachamba (Giridi)	0.80	0.46	.....	0.25	0.07	0.06	.....	5	1.76	6.67	9.17	52.49	3.00
		Hamaribagh	1.50	0.74	0.02	0.25	0.47	.....	.....	5	2.08	6.23	8.82	40.00	3.00
		Boutagurab	1.45	0.12	0.14	0.37	0.10	.....	.....	5	2.18	7.30	8.76	38.29	3.00
SOUTH BHAR	Mahudi Hills	Mahudi Hills	1.30	.....	0.59	0.60	.....	.....	.....	5	2.30	10.00	11.36	54.06	3.00
		Barhi	0.40	0.68	0.22	0.16	.....	0.10	.....	5	1.50	4.79	?	47.34	3.00
		Chatra	0.80	0.70	0.09	.....	1.16	.....	0.08	5	2.77	4.74	?	46.31	3.00
SOUTH BHAR	Karagdeha	Karagdeha	0.77	0.30	0.04	0.05	0.34	2.59	.....	6	4.09	8.01	?	54.35	3.00
		Kamphar	1.63	0.47	.....	2.90	0.40	.....	.....	6	5.39	9.45	?	48.11	3.00
SOUTH BHAR	Lohardugga	Lohardugga	1.39	0.46	.....	0.85	0.70	0.40	.....	5	3.65	7.03	10.27	52.53	3.00
		Kanohi	1.70	0.12	.....	0.38	0.84	.....	.....	4	3.11	10.15	9.33	61.87	3.00
		Palanow	0.81	0.20	0.03	0.09	0.43	.....	0.07	6	1.63	4.44	8.14	44.18	3.00
SOUTH BHAR	Silla	Silla	.....	.....	.....	.....	1.10	.....	.....	1	1.10	5.30	?	39.20	3.00
		Balumat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....	3.00
		Hossainabad	1.25	3.76	.....	.....	.....	.....	.....	2	5.01	9.34	?	41.76	3.00
SOUTH BHAR	Gorwah	Gorwah	0.43	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....	3.00
		Chyebasa	1.95	.....	0.07	0.30	0.56	.....	.....	4	2.18	7.74	9.76	32.77	3.00
		Chakradhar-pore	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....	3.00
SOUTH BHAR	Ghatilla	Ghatilla	0.03	0.50	.....	.....	.....	.....	1.35	3	1.88	10.61	?	47.56	3.00
		Bakaragura	0.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....	3.00
SOUTH BHAR	Manbhoon	Parula	0.55	0.03	0.13	.....	.....	.....	0.07	4	0.77	5.66	8.37	41.36	3.00
		Gobindpore	0.55	0.17	0.09	.....	0.08	.....	.....	4	0.90	6.47	7.06	35.14	3.00
		Raghunath-pore	0.30	.....	.....	.....	.....	.....	.....	1	0.30	8.00	?	58.33	3.00
SOUTH BHAR	Barrabhoon	Barrabhoon	0.80	.....	.....	0.05	.....	.....	.....	2	0.85	5.98	?	42.26	3.00
		Jhals	0.51	0.06	0.12	.....	2.33	.....	3.03	5	6.04	14.17	?	61.55	3.00
		Chas	0.33	.....	.....	.....	0.12	.....	.....	2	0.45	5.52	?	44.98	3.00

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 7th October 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
3RD OF OCTOBER 1890.**

At the end of the previous week the depression which had commenced off the Circars was in the Central Provinces, but had ceased to move in a westerly direction, and at the beginning of the present one was moving to the east-north-east. Its influence in Bengal, even when furthest west, was apparent in the easterly winds and general rainfall, but, as from its commencement, wind velocity was generally low. On Saturday the 27th the area of lowest pressure was partly over Chutia Nagpur where pressure was falling briskly, and as there was a general rise elsewhere, the depression diminished very little in intensity. Winds were south-west or south in Lower Bengal, and were beginning to get stronger at the head of the Bay and at some of the stations in South-West Bengal. Moderately heavy rain fell over the whole province on this day, but in the south-east as well as in Orissa weather was improving, and very little rain fell after the first day of the week. On Sunday the 28th, pressure had risen rapidly at the western stations, and the depression was rapidly filling up, but being now well over Bengal, weather was more unsettled, especially in Behar and North Bengal, where very heavy rain was falling. Lowest pressure from being between 29.6 and 29.65 was over 29.75 inches, and moderate southerly winds were blowing in all districts except North Bengal and Behar, where north-east winds of considerable strength continued. As the depression was filling up, thunderstorms with heavy local falls of rain became general over almost the whole province, especially in the north-east corner. One of these gave stormy winds at Mymensingh, and seems to have been somewhat of the nature of a tornado. On the 29th lowest pressure was again over the Circars, but the distribution was rapidly changing, and by the end of the month became very uniform with a diffused low-pressure area covering the whole of the Bay, with a faint indraught across the coast. Light scattered showers fell in Orissa and Chutia Nagpur on the 30th, but elsewhere rain had almost entirely ceased. The tendency to greater uniformity continued on the 1st of October, and the light winds changed from east to west except in Assam, one apparent result of which was the commencement of rainfall in North Bengal, brought by local storms due to the interaction of these opposing currents. Up to the end of the week these showers were confined to North Bengal and were generally light, rarely exceeding one inch.

Pressure was about .2 inch below the normal at Hazaribagh and Dehree at the beginning of the week, when there was considerable increase in steepness of the gradients over Bengal owing to a brisk fall in Chutia Nagpur and a brisk rise in the eastern districts, the relative change being about .15 inch. A rapid rise occurred in Chutia Nagpur and South Behar on the 28th, exceeding .22 inch at Dehree, and though rising over the whole province, the rate diminished rapidly towards the east. The rapid rise continued in the central districts on the 29th, and the area of lowest pressure was forced southwards as far as the Circars, after which pressure rose slowly until the distribution was very uniform over Bengal and the Bay. Mean pressure for the week differs very little from the normal, and is generally above by varying amounts under .02 inch.

Temperature was very low while the disturbed conditions lasted, and it recovered rapidly after the skies cleared during the latter half of the week. The means are all below the normal, defect being 5.5° in South Behar, 4.9° in North Behar, 3.8° in Chutia Nagpur, 3.5° in North Bengal, 1.8° in South-West Bengal, 1.2° in Orissa, and .4° in East Bengal, the southern part of which was but slightly affected by the depression. Some very low minimum temperatures were recorded during the week, the lowest being 64.8° in Chutia Nagpur, 65.6° in North Bengal, 66.5° in Behar, and between 71° and 72° in Lower Bengal. On the 27th defect was between 6° and 7° in Behar, but by the following day it had increased to between 10° and 12° at the more western stations, and on the 29th in the whole of Behar and North Bengal. After the filling up of the depression there was a rapid rise in these districts, and a steady rise continuing, defect by the end of the week was replaced by an excess of about 3° in the lower districts and 1° in Behar and North Bengal.

Rainfall was general and rather heavy in Behar, Chutia Nagpur, and South-West Bengal on the 27th. On the 28th it was much heavier in the northern districts and lighter in Chutia Nagpur and South-West Bengal, many of the falls in Behar and North Bengal being over 5 inches. The area of heavy rainfall was transferred gradually to the east, and on the 29th only a few heavy showers fell in the contiguous parts of East and North Bengal, after which rain almost entirely ceased except in the south-west corner, where fairly general light showers fell. The mean falls for the week are all largely above the normal except in Orissa where there is a small excess, and in East Bengal where there is defect of .7 inch. The very heavy rainfall of the first three days of the week in North Bengal is shown by the weekly mean for the whole district being 11.1 inches, or 9.36 inches in excess of the normal. In North Behar excess is 2.78, in South Behar 2.49, in South-West Bengal 2.77, and in Chutia Nagpur 1.13 inches. In East Bengal falls were generally below 1 inch except in the Mymensingh district, where they varied between 1 and 10 inches, in South-West Bengal and Orissa they ranged up to 7 inches, in North Bengal they were generally between 5 and 10 inches, the heaviest being Panobibi 24.49, Ulipore 17.46, and Mohadebpore 16.6, Baloorghat and Rungpore over 15 inches, and in Behar and Chutia Nagpur they were nearly all between 2 and 4 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 3rd of October 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.				Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of September.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.		Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa	93.4	73.8	87.3	77.7	82.5	-1.2	2.04	1.76	+0.29	2.9	2.5	+0.4	17.82	10.91	52.26	45.44	
South-West Bengal ...	93.3	71.7	86.3	76.3	81.3	-1.8	4.01	1.24	+2.77	3.7	2.2	+1.5	9.46	9.03	48.08	47.12	
East Bengal	91.5	71.1	87.1	76.6	81.8	-0.4	1.81	2.01	-0.20	1.7	2.7	-1.0	7.30	12.78	64.77	67.63	
North Bengal	90.7	66.6	83.8	73.5	78.7	-3.5	11.10	1.74	+9.36	3.5	2.3	+1.2	19.65	14.05	83.19	64.77	
North Behar	92.8	66.6	82.7	72.7	77.7	-4.9	4.58	1.80	+2.78	3.0	1.6	+1.4	9.28	10.62	60.90	45.09	
South Behar	90.7	67.3	82.1	73.1	77.6	-5.5	3.52	1.03	+2.49	3.8	1.5	+2.3	6.63	8.94	50.92	40.06	
Chutia Nagpur	86.0°	64.8°	78.9°	68.1°	73.5°	-3.3°	2.13	1.00	+1.13	4.6	1.8	+2.8	7.04	9.12	43.86	45.62	

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 7th October 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of September 1890.

	Inches.	Date.	Hour.
The mean pressure of the month ...	29.694		
The average pressure of September from 24 years' registers ...	29.682		
The highest pressure in the month ...	29.906	30th	10
The lowest pressure in the month ...	29.537	15th	16
The range of pressure ...	0.369		
<hr/>			
The total number of hours of bright sunshine during the month	131.8		
The maximum possible number of hours of sunshine	367.0		
<hr/>			
The mean temperature of the month ...	82.5		
The average temperature of September from 24 years' registers	83.3		
The highest temperature in the month ...	92.7	5th	
The lowest temperature in the month ...	71.8	27th.	
The range of temperature during the month ...	20.9		
The mean daily range of temperature ...	10.7		
The greatest range of temperature in one day ...	16.4	5th.	
<hr/>			
Per cent.			
The mean humidity of the month ...	87		
The average humidity of September from 24 years' registers ...	85		
<hr/>			
Inches.			
The mean vapour pressure of the month ...	0.966		
The average vapour pressure of September from 9 years' registers	0.987		
The mean cloud proportion of the month ...	6.35		
The average cloud proportion of September from 13 years' registers	7.09		
The total rainfall of the month ...	12.53		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	11.92		
The average fall of September from 48 years' registers	10.18		
The greatest fall in 24 hours ...	3.41	27th.	
<hr/>			
Days.			
The number of rainy days in the month ...	18		
The average number of rainy days in September from 24 years' registers	21		
<hr/>			
°			
The mean maximum equilibrium temperature of solar radiation during the month ...	145.0		
The mean difference of sun and air temperatures ...	57.5		
The greatest sun temperature ...	161.4	12th.	
The greatest excess of sun over air temperature ...	70.6	12th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth ...	75.2		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground ...	2.0		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature ...	3.1	30th.	
<hr/>			
Miles.			
The mean movement of the wind per day ...	70.7		
The greatest movement of the wind in one day ...	176.0	23rd.	
The greatest movement of the wind in one hour ...	13.0	23rd noon to 1 p.m.	
The number of hours with winds from each of the 8 points—			

N. 1, N.E. 17, E. 167, S.E. 172, S. 115, S.W. 69, W. 8, N.W. 3, Calm 168.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently equal; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer which is the standard of reference at the present Observatory.

J. H. GILLILAND,

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 6th October 1890.

For Meteorological Reporter to the Govt. of India.

**Results of the Meteorological Observations taken at the Alipore Observatory from
28th September to 4th October 1890.**

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				Prevailing direction.	Miles recorded.	Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.				
		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
Sept.	28th	147.4	1.5	29.743	78.5	84.5	11.1	73.4	76.0	0.890	76.0	91	S by E, SSW and SE by S.	120	2.75	Chiefly cloudy, g, p, d, t.
"	29th	14.59	0.1	.813	79.5	85.9	12.2	73.7	77.6	.921	76.7	90	SE, calm and variable.	48	0.99	Partially cloudy o, p.
"	30th	147.8	9.8	.843	81.0	86.5	12.2	74.3	77.7	.905	76.2	86	ESE and calm	17	Nil	Chiefly clear Δ, =.
Oct.	1st	146.7	8.7	.841	82.1	87.7	11.8	75.9	78.4	.923	76.8	84	Calm and variable	19	"	Chiefly, clear.
"	2nd	148.6	10.7	.820	82.9	88.5	11.8	76.7	79.3	.953	77.8	85	SW and calm	50	"	Chiefly, clear.
"	3rd	151.5	9.2	.780	82.8	89.7	12.0	77.7	79.1	.952	77.7	96	SW by S, SW and variable.	74	0.33	Chiefly, clear, o K, t, p. <.
"	4th	144.4	6.5	.750	80.7	86.4	12.2	74.2	77.4	.897	75.9	86	SW by W and calm	32	0.05	Partially cloudy o, d, t.

The mean pressure of the seven days 29.799
The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.750

The total number of hours of bright sunshine 52.5
The maximum possible number of hours of sunshine 83.3

The mean temperature of the seven days 81.1
The average temperature of the corresponding period for 24 years, S.-G.'s Office 83.4
The extreme variation of temperature 16.3
The maximum temperature 89.7

The highest velocity of the wind in one hour 10

The highest pressure of wind on one square foot Approximately 6 lbs.

The mean relative humidity 87
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office 83

The total fall of rain from 28th September to 4th October 1890 4.12
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 1.62
The total fall from 1st January to 4th October 1890 53.08
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 59.76

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; p, passing temporary showers; d, drizzling rain; t, thunder; Δ, dew; =, fog; <, lightning.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of September 1890.

	Inches.	Date.
The mean pressure at 10 A.M. during the month ...	29.753	
The mean temperature at 10 A.M. during the month ...	85.3	
The highest temperature during the month ...	94.0	5th.
The lowest temperature during the month ...	74.6	28th.
The absolute range of temperature during the month ...	19.4	
The mean daily range of temperature during the month ...	11.1	
The greatest range of temperature in one day during the month ...	16.7	16th.
The mean 10 A.M. humidity during the month ...	80	
The mean 10 A.M. vapour pressure during the month ...	.973	
The total rainfall of the month ...	11.60	
The greatest fall in 24 hours ...	3.02	27th.
The number of rainy days in the month ...	19	

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 6th September 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 28th September to 4th October 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
September ..	28th ...	29.762	79.8	84.0	10.3	74.6	83.6	80.5	1.001	79.3	87	0.72
" ..	29th ...	80.3	80.4	85.9	11.1	74.8	81.6	79.5	.981	78.7	91	2.00
" ..	30th ...	81.5	81.8	88.8	14.0	74.8	84.9	79.5	.988	77.2	78	0.42
October ..	1st ...	81.3	83.2	90.0	13.6	78.4	86.6	79.5	.914	76.5	72	...
" ..	2nd ...	82.8	83.8	90.4	13.2	77.2	87.0	79.5	.908	76.3	71	...
" ..	3rd ...	85.0	85.1	90.0	13.8	78.2	86.6	81.5	1.008	79.5	80	...
" ..	4th ...	82.6	82.2	89.0	13.7	76.3	83.0	78.5	.916	76.6	71	0.33

The mean 10 A.M. pressure of the seven days ...	29.861
The mean temperature of the seven days ...	82.3
The extreme variation of temperature ...	17.4
The maximum temperature ...	92.0
The mean 10 A.M. relative humidity of the seven days ...	80
The total fall of rain from 28th September to 4th October 1890 ...	4.07
The daily mean temperatures are the crude means of maximum and minimum temperatures.	

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 6th October 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 20th September 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 20th September 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 26·6 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 2·5 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885 and 1889—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	27·5	23·4	18·4	22·1	28·9	24·1	26·6

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.		30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.
Burdwan	27·6	55·4	53·0	2·4	Narainkanj	12·4	29·0	20·7	37·3
Midnapore	17·0	17·0	0·3	18·9	Chittagong	4·7	9·4	9·4	4·7
Hughli and Chinsurah	29·5	39·4	30·4	39·4	Comillah	54·7	27·0	11·6	19·3
Berhampore	31·4	30·3	31·4	45·1	Patna City	10·1	17·2	15·3	14·8
Utterpara	9·4	57·7	37·7	37·7	Gya	26·0	30·1	24·0	42·4
Howrah	17·2	13·2	21·8	21·8	Arrah	18·7	79·0	18·7	57·4
Bali	13·0	10·5	17·5	10·5	Moxufferpore	9·7	25·5	7·3	22·5
Krishnagar	11·4	34·1	20·5	17·0	Dumka	37·0	22·0	22·8	37·0
Ranaghat	...	6·0	...	12·0	Chupra	4·0	28·2	29·2	38·2
Santipore	7·0	22·8	20·3	14·0	Bhagalpore	25·3	30·8	30·8	19·9
Jessore	...	...	12·2	...	Monahyr	28·0	45·2	38·9	46·1
Rampore Beaulah	42·0	34·2	31·4	57·8	Purneah	10·4	20·8	10·4	10·4
Darjiling	35·4	29·6	37·0	37·0	Poori	4·3	10·5	14·7	12·6
Dacca	16·9	11·7	14·9	15·6	Total	19·0	28·3	22·0	20·6

It will be seen that last week the highest birth-rate was returned from Rampore Beaulah (57·8), and the lowest from Chittagong (4·7). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23·4 per 1,000 of the population. The rate of the week is 7·4 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	37·4	31·5	22·5	25·7	33·8	30·8	23·4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.		30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.
Burdwan	24·4	16·8	29·0	19·8	Narainkanj	12·4	16·0	16·6	12·6
Midnapore	9·3	17·0	20·1	17·0	Chittagong	9·4	15·8	9·4	14·1
Hughli and Chinsurah	30·1	18·1	37·7	24·5	Comillah	11·6	19·3	27·0	19·3
Berhampore	35·4	42·2	33·0	28·4	Patna City	10·2	26·9	20·4	14·9
Utterpara	28·3	24·3	28·3	24·3	Gya	26·7	26·1	40·3	38·9
Howrah	19·5	10·9	13·7	13·2	Arrah	4·4	29·9	15·6	35·9
Bali	31·0	14·0	10·3	38·5	Moxufferpore	19·6	26·7	24·3	76·8
Krishnagar	9·5	11·4	22·7	11·4	Dumka	44·8	30·3	22·8	36·2
Ranaghat	12·0	12·0	0·0	24·0	Chupra	11·1	62·5	39·3	39·2
Santipore	7·8	15·4	19·3	14·0	Bhagalpore	19·0	27·5	18·1	17·8
Jessore	18·4	36·7	62·8	14·4	Monahyr	27·0	27·1	21·7	56·3
Rampore Beaulah	21·0	18·4	30·4	31·2	Purneah	20·8	10·4	13·9	17·3
Darjiling	44·8	59·3	14·8	14·8	Poori	20·2	42·3	31·5	21·0
Dacca	20·1	13·0	24·0	21·4	Total	22·9	23·4	26·7	23·4

It will be seen that last week the highest mortality occurred in the town of Gya (38·9) and the lowest in Krishnagar (11·4).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.			Fever.			Other causes.		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Chupra	...	10·1	Arrah	...	25·1	Gya	...	15·7
Durbhanga	...	9·4	Bali	...	24·6	Poori	...	10·5
Mozufferpore	...	4·9	Ranaghat	...	23·9			
Patna City	...	4·2	Rampore Beaulah	...	23·6			
			Gya	...	21·8			

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2·3 from cholera, against 3·5 per 1,000 in the preceding week; 3 from injury, against 5; and 7·2 from other causes, against 7. Fever and bowel-complaints exhibit the same ratios as in the preceding week, viz. 11 and 2·6 per 1,000 respectively. No death was recorded under the head small-pox during the week under review.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.			According to Class.			According to Age.		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	24·4	Christians	...	14·9	Under 1 year	...	225·8
Females	...	22·2	Hindus	...	23·3	1 and under 5 years	...	34·1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	...	110	Mahomedans	...	23·8	5 " 10 "	...	14·1
						10 " 15 "	...	9·7
						15 " 20 "	...	12·2
						20 " 30 "	...	9·9
						30 " 40 "	...	11·9
						40 " 50 "	...	18·7
						50 " 60 "	...	23·5
						60 years and upwards	...	62·5

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 6th October 1890.

Sanitary Commissioner for Bengal.

1		2		3		4		5		6		7		8		9		10		11		12									
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.				MORTALITY ACCORDING TO—														Ratio of deaths per 1,000 of population per annum in the previous week.	Sex.				Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.			
		Males.	Females.	Total.	NUMBER OF—			Ratio of male births to every 100 female births.	DEATHS FROM—						RATIO PER 1,000 OF POPULATION PER ANNUM.						DEATHS.	RATIO PER 1,000 OF POPULATION PER ANNUM.									
					Males.	Females.	Total.		Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.		Other diseases.		All causes.	Males.	Females.					
																											Males.		Females.	Total.	Cholera.
Bardwan	Bardwan	16,069	16,617	34,686	9	5	14	13.7	7.6	21.4	180			7	1	1	4	13			10.7	1.5	1.5	6.1	19.8	29.0	7	6	20.2	19.5	108
Midnapore	Midnapore	16,937	16,433	33,560	5	4	9	7.7	6.2	13.9	185			8	2		6	11			4.6	3.1		9.3	17.0	24.1	9	2	27.6	6.3	488
Hughli	Hughli and Chinsurah	15,553	15,830	31,687	15	9	24	24.8	14.8	39.6	165			8	1		6	15			13.1	1.6		9.8	24.6	37.7	9	6	29.5	19.7	150
Serampore	Serampore	13,589	12,837	26,426	18	5	23	35.3	9.8	45.1	340			4	5	1	5	15			7.8	9.8	2.0	9.8	23.4	53.0	10	5	38.4	20.1	191
	Uttarpara	2,446	2,444	5,810	3	3	6	15.9	18.8	34.7	100			1			2	3			9.4			18.8	23.3	29.3	2	1	34.1	21.1	161
Howrah	Howrah	53,153	37,486	90,613	19	20	39	10.3	11.5	21.8	90			14	2		7	23			5.8	1.1		4.0	12.4	13.7	13	10	13.7	13.8	92
	Bali	7,936	6,979	14,815	3	2	5	7.4	3.5	10.9	200			7	2	1	1	11			24.8	7.0	3.5	3.5	38.6	16.5	6	8	39.8	37.3	106
	Krishnasar	13,363	14,314	27,477	9		9	17.0		17.0	No female birth.			3			3	6			5.7			5.7	11.4	22.7	4	2	13.7	7.3	215
Nuddea	Ranaghat	4,025	4,655	8,683	1	1	2	6.0	6.0	12.0	100			4			1	5			23.9			6.0	29.9	6.0	3	2	38.7	22.3	173
	Santipore	12,704	15,979	28,687	3	5	8	5.3	8.8	14.0	60			4	1	1	2	8			7.0	1.7	1.7	3.5	14.0	19.3	4	4	15.2	13.0	113
Jessore	Jessore	4,930	3,665	8,495										1	1		1	3			6.1	6.1		6.1	12.4	42.8	2	1	21.5	14.2	151
Rajshah	Rampore Beaulah	10,766	9,085	19,791	11	11	22	23.9	23.9	47.8	100			9			3	12			23.8			7.9	31.5	39.4	4	8	19.3	46.1	42
Darjiling	Darjiling	4,579	2,430	7,018	3	2	5	22.2	16.8	37.0	180			2				9			14.8				14.8	14.8	2		22.7		No female death.
Dacca	Dacca	62,783	37,379	100,161	12	13	24	7.8	7.8	15.6	100	3		13	8		9	33	1.9		8.4	5.8		5.8	31.4	28.5	24	9	29.2	12.5	2.3
	Narainganj	7,665	4,966	12,561	6	3	9	24.3	13.4	37.3	200			2			2	4			8.3			5.3	16.6	16.6	3	1	30.5	10.5	195
Chittagong	Chittagong	15,346	8,790	22,136	1	1	2	2.3	2.3	4.7	100			3			3	6			7.0			7.0	14.1	9.4	3	3	11.7	17.7	86
Tipperah	Oomillah	8,153	5,853	13,506	2	2	5	7.7	11.6	19.3	66			3			2	5			11.6			7.7	19.3	27.0	3	2	19.1	19.4	26
Patna	Patna City	78,702	61,475	160,387	31	14	45	10.1	4.5	14.6	221	13		12	7	1	15	46	4.2		3.9	2.3	3	4.2	14.9	20.4	20	26	13.2	16.6	79
Gya	Gya	28,290	37,631	74,121	29	33	62	19.3	22.5	41.4	89	2		22			23	57	1.4		21.8			15.7	33.9	60.3	21	36	23.5	49.5	57
Shahabad	Arrah	20,960	22,505	43,465	24	24	48	28.7	23.7	57.3	100	3		21			7	30	2.4		25.1			8.4	25.9	15.6	15	15	37.2	34.7	107
Mosufferpore	Mosufferpore	23,084	19,652	42,732	9	12	21	10.9	14.6	25.5	75	4		22	1		5	29	4.9		14.6	1.2		5.1	26.8	24.3	13	10	27.0	26.3	103
Durbhanga	Durbhanga	53,774	32,323	86,096	26	21	47	20.5	16.0	37.0	124	12		18	6		10	46	9.4		14.2	4.7		7.9	36.2	22.8	24	22	37.0	33.4	104
Barua	Chupra	25,116	24,554	51,670	22	16	38	21.1	16.1	38.9	137	10		5	4		9	24	10.1		5.0	4.0		8.1	28.2	39.2	17	11	35.3	31.5	168
Bhagulpore	Bhagulpore	22,646	27,613	57,463	12	10	22	10.9	9.0	19.9	120			11			8	19			10.0			7.2	17.2	18.1	11	8	19.3	13.0	126
Monghyr	Monghyr	23,164	20,366	47,520	31	29	51	23.0	18.1	46.1	165			18	9	1	11	39			16.3	8.1	9	9.9	25.3	21.7	20	19	36.9	33.6	100
Purneah	Purneah	8,463	6,853	15,016		3	3		10.4	10.4	No male birth.			8				5			17.3				17.3	13.9	1	4	6.1	31.7	19
Poori	Poori	12,247	11,637	24,784	1	0	6	5.1	10.5	15.6	30			2	3		5	10			4.2	6.3		10.5	21.0	31.3	10		39.3		No female death.

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.								Age.																					
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.			DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.											
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Bardwan	Bardwan	6	7				13.2	35.5			2		1			2	1	3	1	3	157.6		23.3			13.1	7.5	25.3	21.3	105.3	
Midnapore	Midnapore	9	2				18.0	14.4			2						1	4	1	3	140.0						9.4	25.3	26.2	85.3	
Hughli	Hughli and Chinsurah	10	5				20.6	42.2			3	2		2		1	2	1	1	1	223.6	66.9		41.9		5.4	15.3	12.5	20.9	25.1	
Serampore	Serampore	13	3				24.7	163.3			3	1	1		1			3	1	5	219.7	26.8	20.7		20.6			46.2	27.2	186.9	
	Utterpara	3					29.3				1			2						1	323.0			106.8							200.0
Mowrah	Howrah	1	17	3			27.5	18.0	12.7		4	3		1	1	2	4	3	1	2	100.8	45.9		7.9	7.1	4.5	10.9	12.3	9.5	27.7	
	Balli		7	4			27.1	159.7			3	1	3						1	3	420.9	52.1	145.3						40.6	215.1	
Nudda	Krishnagar		4	2			11.2	12.6			4									1	1	419.4								24.7	30.1
	Ranaghat		3				33.5						1	1			1		2											143.6	
	Santipore		7	1			17.6	5.8			3	1		1			2			1	104.6	17.9		17.9			24.0			26.6	
Jessore	Jessore		1	2			11.5	27.3				1				1		1				105.3					25.8		40.5		
Rajshahye	Rampore Beaulah		4	3			21.0	42.4			3	1	4	2				2			384.2	36.7	100.6	57.7				42.4			
Darjiling	Darjiling		2				22.6					2										164.7									
Dacca	Dacca		23	10			29.7	13.2			2	2	3	3	3	3	1	6	1	4	127.0	14.1	19.7	19.6	21.4	17.0	4.5	37.2	11.0	37.3	
	Narainganj		1	3			6.2	23.3			1	1					1			1	188.4	45.6					24.3			70.3	
Chittagong	Chittagong	1	1	4			60.3	9.0	13.6		2	1	2			1		1			184.7	26.4	20.8				11.2		23.0		
Tipperah	Comillah		1	4			5.7	28.1			2	1			1			1			350.3	30.8				41.3			20.6		
Palna	Palna City		35	11			15.3	14.0			3	3	3	1	3	6	3	2	3	12	60.3	26.5	9.3	3.6	14.0	10.8	6.7	5.5	11.0	45.2	
Gya	Gya		40	7			43.3	22.6			11	10		3	3	3	7	4	3	11	319.6	31.8		23.2	20.6	10.6	23.6	21.3	39.6	111.7	
Mahabud	Arrah		19	11			31.9	45.1			9	1	2			3	4	3	2	6	363.4	11.7	20.3			19.9	32.3	23.2	35.6	106.2	
Mosufferpore	Mosufferpore		19	4			31.2	16.7			4	6	1	1	1	4	1		2	2	217.8	77.2	11.6	13.1	17.2	24.2	7.5		32.6	42.7	
Durbhanga	Durbhanga		22	14			34.4	41.4			2	6	5	2	1	4	4	3	3	4	237.2	44.0	33.2	18.7	18.9	15.6	18.6	41.9	53.3	81.4	
Saran	Ohupra		17	11			22.3	46.0			3	3	1		2	3	2		4	5	231.8	20.2	8.7		20.0	16.9	13.4		50.3	76.4	
Bhagulpore	Bhagulpore		15	4			19.3	18.1			7				1	2	3	1	2	3	304.9				12.4	9.5	16.8	8.5	24.4	43.3	
Monghyr	Monghyr		29	9			24.2	57.3			12	7	4		2	2	3	1	1	7	420.2	58.5	29.5		27.5	10.1	17.5	8.2	13.1	101.5	
Furneah	Furneah		1	4			5.7	36.7			3					1				1	551.2						15.8			55.5	
Poori	Poori		10				21.3				3	1								3	514.9	28.9						46.9		56.4	
TOTAL		2	340	135			16.9	23.3	23.8		110	61	20	18	19	40	40	45	35	79	225.8	34.1	14.1	9.7	12.3	9.9	11.9	16.7	23.5	62.5	

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 6th October 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 4th October 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 4TH OCTOBER 1890.			WEEK ENDING SATURDAY, THE 5TH OCTOBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	345	7,1750	862	317	60,765	953
Jute	242	86,095	1,034	194	99,350	1,086
Firewood	136	74,475	989	168	67,825	1,74
Other articles	1,155	2,17,505	3,718	786	1,36,550	1,982
Total	1,878	5,02,825	7,203	1,455	3,57,490	5,645

Bengal Central Railway.

*Abstract of principal commodities carried over the Bengal Central Railway during the month of
July 1890, as compared with the same month of the previous year.*

STAPLES.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	868	5	1,493	18	1,216	1,493		277
Cotton, raw					2	13		
Cotton, twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	271		232	1	271	233	38	
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
1.—Rice	16	50	110	83	64	163		99
2.—Others	44	16	50	834	59	884		825
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Unscoured		47		808	47	808		761
2.—Gunny-bags and cloth	3	1	9	10	4	19		15
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought								
4.—Iron	50	7	78	19	67	97		10
5.—Tin								
6.—Others								
Oil—								
1.—Kerosine	146		130		146	130	16	
2.—Others	182		116		182	116	67	
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	152	318	69	396	465	465	10	
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
1.—Betel-nuts		638	1	162	638	163	475	
2.—Others	84	12	24	48	46	92		46
Railway plant and rolling-stock								
Salt	426		306		426	306	120	
Sugar—								
1.—Drained	20	133	10	269	192	379		187
2.—Undrained	30	39	46	60	66	96		30
Tobacco								
All other articles of merchandise—								
1.—Unmanufactured	1,777	463	792	310	2,280	1,012	1,268	
2.—Manufactured								
Total	4,466	1,765	3,433	5,949	4,294	6,682	1,964	2,388

DECREASED.

DECREASES.										Tons.
Coal	..	...	...	...	...	...	...	...	...	277
Sufficiency of stock for railway and flotilla purposes.										
Unscrewed jute	...	...	...	...	...	...	...	...	...	761
Due to dulness of the Calcutta market. The decrease was almost exclusively in despatches from Khoolna.										
Sugar	...	...	...	...	...	...	...	...	...	187
Due to the successful competition of raw sugar from Java.										

INCREASED.

Betel-nuts
From the Bengal Central Flotilla station exclusively.

F. P. QUINLAN,
Joint Auditor and Examiner of Accounts.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of July 1890, as compared with the same month of the previous year.

STAPLES.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	907		1,454		907	1,454	517	
Cotton, raw	4		5		4	5	1	
Cotton piece-goods—								
1.—European	23		19		23	19		4
Grains—								
2.—Rice	29	25	153	18	57	166	114	
4.—Others	11	11	107		23	107	58	
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed		1		3	1	3	2	
Jute—								
2.—Gunny-bags and cloths	2	1	2	3	3	10	7	
Leo—								
1.—Stick	2			1	2	1		1
Metals—								
2.—Iron			6			6	6	
4.—Others	1	2	3	7	3	10	7	
Oils—								
1.—Castor	1		3		1	3	1	
2.—Kerosine	3		3		3	3		
3.—Others	2		1		2	1		1
Oilseeds—								
1.—Mustard and rape	31		54		31	54	23	
Provisions—								
1.—Ohee	1		1		1	1		
3.—Others	4	22		104	30	109	73	
Paper and paste-board	3		4		3	4	1	
Railway plant and rolling-stock	9	14	28	4	23	63	39	
Salt	73		64		72	64		8
Silk, raw—								
1.—Indian		5	7	23	8	30	22	
Silk piece-goods—								
2.—Indian		5			5			5
Stone and lime	9		3	1	9	4		5
Sugar—								
1.—Drained	28		11		28	11		17
2.—Undrained	3		31		3	31	28	
Tobacco	24		16	5	24	21		3
Timber	7		16		7	16	9	
All other articles of merchandise	67	20	44	6	65	50		15
Total	1,243	110	2,039	175	1,359	2,214	955	0

INCREASE.

	INCREASE.	Tons.
Coal	...	517
Due to increased demand.	...	
Grains—		
(2) Rice	...	144
This is due to greater export from intermediate stations.	...	
(4) Others	...	85
Due to import of paddy for greater demand.	...	
Oil-seeds—		
(2) Mustard and rape	...	23
Due to greater demand.	...	

	Tons.
Provisions—	
(3) Others	73
Due to greater export of fresh fruits from Azimganj, chiefly jack fruits.	
Railway plant and rolling-stock	39
Due to greater despatches of railway materials.	
Silk, raw—	
(2) Indian	22
Due to greater despatch of silk to Europe this year.	
Sugar—	
(2) Undrained	28
Due to sudden demand.	
DECREASE.	
Sugar—	
(1) Drained	17
Due to despatches from Calcutta by steamer.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	238,649	2,40,240 11 0	19,53,614 10	4,40,815 6 0	16,614 14 1	7,00,082 15 1	61,866	60,446	122,312
Or per mile of railway	157	157 7 10	12,800 10	294 13 10	10 14 3	463 3 11	.....	.....	.....
For previous 12 weeks of half-year	2,616,864	25,10,259 12 0	2,18,53,282 10	48,77,479 0 0	1,02,295 1 9	70,83,034 14 3	757,091	691,766	1,448,857
Total for 13 weeks	2,845,513	28,50,509 7 0	2,38,06,896 20	53,27,297 6 0	2,08,010 15 10	83,01,717 13 4	818,957	972,314	1,791,271
COMPARISON.									
Total for corresponding week of previous year	247,835	2,70,602 8 10	22,27,003 30	4,63,006 15 0	16,325 8 10	7,51,120 7 8	66,833	78,923	145,756
Per mile of railway corresponding week of previous year	.....	177 9 2	.....	304 1 3	10 11 3	492 6 1	.....	.....	.....
Total to corresponding date of previous year	3,105,206	30,93,280 13 1	2,76,75,074 20	57,63,334 12 0	2,16,290 9 6	90,71,776 3 0	848,533	1,033,584	1,882,117

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included receipts for pilgrim traffic from Gya on account of "Aupar Puckha."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1888.

RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH SEPTEMBER 1890.			Total increase 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
1,525½	7,51,120	492	1,625½	7,00,082	463	1,525½	2,10,08,527	532	1,525½	1,95,10,048	492	.....	19,67,779

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Traffic for the week	12,325	6,551 8 0	31,017 30	2,303 15 0	32 5 0	8,647 10 0	1,372	462	1,834
per mile of railway	216	111 0 8	542 20	40 4 5	0 9 0	151 14 1	.....	.....	.....
previous 12 weeks of half-year	113,660	67,032 6 0	2,77,536 20	23,670 8 0	505 12 0	81,838 10 0	12,021	6,816	18,836
Total for 13 weeks	125,985	64,053 14 0	4,08,554 10	25,974 5 0	538 1 0	90,546 4 0	13,393	7,277	20,669
COMPARISON.									
for corresponding week of previous year	21,934	13,605 1 8	23,485 20	2,106 9 0	38 13 0	15,752 7 8	2,081	427	2,508
per mile of railway corresponding week of previous year	383½	247 13 7	410 30	36 13 10	0 10 10	275 6 3	.....	.....	.....
to corresponding date of previous year	166,426	1,04,746 11 10	6,17,517 30	29,582 11 0	558 2 3	1,34,967 9 1	17,677	8,933	26,610

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included receipts for pilgrim traffic from Gya on account of the fair Puckhna.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 27th SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 27th SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 27th SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 27th SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Rs.	Rs.
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
15,752	275	57½	6,638	153	57½	2,48,983	167	57½	2,17,291	146	.....	.....	31,692

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Traffic for the week	14,021	3,462 13 0	5,645 30	207 14 8	4 2 0	3,574 13 0	922	46	968
per mile of railway	.....	156 9 13	.....	9 5 6	0 3 0	174 2 6	.....	.....	.....
previous 12 weeks of half-year	202,721	40,659 11 0	54,453 20	2,348 7 0	71 8 0	52,079 10 0	10,772	568	11,340
Total for 13 weeks	217,342	52,822 8 0	60,101 10	2,556 5 0	75 10 0	55,064 7 0	11,694	604	12,298
COMPARISON.									
for corresponding week of previous year	17,758	4,491 0 6	9,875 0	336 8 0	10 2 0	4,838 0 6	904	64	968
per mile of railway corresponding week of previous year	.....	201 13 9	.....	15 2 0	0 7 3	217 7 0	.....	.....	.....
to corresponding date of previous year	220,763	54,002 15 10	74,483 20	2,479 10 0	61 5 3	56,603 15 1	12,015	625	12,640

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 27th SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 27th SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 27th SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 27th SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Rs.	Rs.
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
4,838	217	22½	3,875	174	22½	1,30,741	241	22½	1,40,803	243	.....	1,361	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 20th September 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	180,250	55,020 0 0	6,02,340 0	1,54,590 0 0	12,290 0 0	2,52,140 0 0	21,998	27,638	
Or per mile of railway	158	72 0 0	789 0	242 0 0	2 0 0	316 0 0	.....	.....
For previous 11 weeks of half-year	1,531,190	6,01,328 0 0	53,10,650 0	14,03,813 0 0	1,49,990 0 0	*21,08,331 0 0	243,740	254,133	
Total for 12 weeks	1,651,430	6,50,548 0 0	54,12,990 0	15,58,703 0 0	1,62,280 0 0	23,07,471 0 0	265,738	281,763	
COMPARISON.									
Total for corresponding week of previous year	124,742	59,214 0 0	6,66,296 0	1,75,175 0 0	14,962 0 0	2,52,341 0 0	22,462	28,234	
Per mile of railway corresponding period of previous year	167	79 0 0	892 0	230 0 0	†3 0 0	330 0 0	.....	.....
Total to corresponding date of previous year	1,633,373	6,76,234 0 0	72,77,049 0	17,06,706 0 0	1,70,367 0 0	25,55,299 0 0	298,576	361,443	

* Audited up to week ending 9th August 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 21ST SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 20TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 21ST SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 20TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
767	2,52,341	338	763	2,52,140	330	768	66,90,741	265	758	*47,90,129	253	99,388	

* Audited up to week ending 9th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN	
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
Total traffic for the week	16,970	5,760 0 0	13,940 0	636 0 0	40 0 0	6,430 0 0	3,610	3,060
Or per mile of railway	121	46 0 0	112 0	5 0 0	0 0 0	51 0 0	.....	.....
For previous 11 weeks of half-year	233,119	86,730 0 0	2,86,040 0	23,423 0 0	2,853 0 0	*1,16,514 0 0	38,680	27,644
Total for 12 weeks	302,023	91,490 0 0	3,99,980 0	23,952 0 0	2,393 0 0	1,22,944 0 0	42,300	34,144
COMPARISON.								
Total for corresponding week of previous year	24,737	9,174 0 0	1,09,549 0	11,066 0 0	686 0 0	20,928 0 0	3,587	2,917
Per mile of railway corresponding period of previous year	198	73 0 0	876 0	89 0 0	5 0 0	167 0 0	.....	.....
Total to corresponding date of previous year	325,520	1,04,917 0 0	7,33,121 0	68,371 0 0	2,432 0 0	1,76,730 0 0	41,840	39,463

* Audited up to week ending 9th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 21ST SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 20TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 21ST SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 20TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	20,928	167	125	6,430	51	125	8,56,567	114	125	*2,06,653	93	.....

* Audited up to week ending 9th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Traffic for the week ...	13,780	4,870 0 0	14,950 0	1,300 0 0	170 0 0	5,550 0 0	2,414	690	3,104
per mile of railway ...	160	56 0 0	174 0	15 0 0	2 0 0	63 0 0	.....	.....	.....
previous 11 weeks of half-year ...	157,250	50,079 0 0	1,34,850 0	11,857 0 0	3,550 0 0	*65,492 0 0	20,896	7,502	28,398
Total for 12 weeks ...	171,030	54,949 0 0	1,49,780 0	13,217 0 0	3,720 0 0	71,342 0 0	23,312	8,092	31,404
COMPARISON.									
for corresponding week of previous year ...	14,532	4,784 0 0	19,534 0	2,009 0 0	147 0 0	5,940 0 0	2,547	1,004	3,551
per mile of railway corresponding period of previous year ...	167	55 0 0	227 0	23 0 0	2 0 0	51 0 0	.....	.....	.....
to corresponding date of previous year ...	176,403	55,595 0 0	1,99,340 0	14,095 0 0	2,639 0 0	71,319 0 0	20,804	10,701	31,505

* Audited up to week ending 9th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 1ST SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 20TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 20TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
6,940	81	86	5,850	68	86	1,45,406	68	86	*1,53,208	71	86	7,706	.....

* Audited up to week ending 9th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Traffic for the week ...	2,490	860 0 0	3,870 0	240 0 0	10 0 0	1,110 0 0	580	170	750
per mile of railway ...	91	32 0 0	142 0	9 0 0	.....	41 0 0	.....	.....	.....
previous 11 weeks of half-year ...	33,340	11,528 0 0	88,540 0	4,879 0 0	176 0 0	*16,253 0 0	6,068	2,963	9,031
Total for 12 weeks ...	35,830	12,388 0 0	92,410 0	4,819 0 0	186 0 0	17,363 0 0	6,648	3,133	9,781
COMPARISON.									
for corresponding week of previous year ...	2,863	947 0 0	11,437 0	770 0 0	20 0 0	1,777 0 0	586	449	1,035
per mile of railway corresponding period of previous year ...	103	35 0 0	420 0	28 0 0	1 0 0	65 0 0	.....	.....	.....
to corresponding date of previous year ...	25,563	12,928 0 0	1,16,875 0	7,095 0 0	595 0 0	21,218 0 0	6,583	4,452	11,035

* Audited up to week ending 9th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 1ST SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 20TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 20TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
1,777	65	27½	1,110	41	27½	46,797	69	27½	*45,405	64	27½	.....	3,392

* Audited up to week ending 9th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 20th September 1890, on 691 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-bent. earnings.	Total earnings.	TRAFFIC TRAIN-MILES		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week (on 691 miles open) ...	96,182	Rs. 25,000	Mds. 2,58,204	Rs. 29,520	Rs. 6,540	Rs. 61,060	11,896	11,442	23,338
Or per mile of railway ...	95.78	37.48	873.07	43.72	9.47	89.07	.....	.....	.....
For previous 10 weeks of half-year ...	761,438	3,00,459	27,40,070	3,17,640	68,027	6,87,026	127,933	120,745	248,678
Total for 11 weeks ...	(a) 850,620	3,20,859	(b) 29,99,174	3,47,160	* 75,457	7,44,980	139,863	132,187	272,050
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year ...	78,100	28,027	2,00,300	17,404	8,770	54,801	10,600	10,308	20,908
Per mile of corresponding week of previous year on 649 miles open ...	120.35	44.11	317.80	26.96	13.51	84.58	.....	.....	.....
Total to corresponding date of previous year ...	914,304	3,16,792	24,55,022	3,94,870	98,849	610,511	125,539	160,180	285,719

* Steam-bent earnings for the week, Rs. 4,800.
Ditto to date, .. 56,340.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 20th SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 21st SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 20th SEPTEMBER 1890.		TOTAL RECEIPTS FROM 1st APRIL 1889 TO 21st SEPTEMBER 1889.		Total increase in 1890-91.		Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.	Per mile worked.	Per mile worked.	
	Rs.	Rs.		Rs.	Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
691	61,060	89.07	649	54,801	84.58	609	20,72,666	125.36	649	21,23,164	131.80	.....

(a) Excludes 3,400 passengers, being traffic common to B. and N.-W. and T. Railways.
(b) Do. 1,38,594 maunds, ditto ditto ditto.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 30th August 1890 ...	7,218
Corresponding period of 1889 ...	17,076
Decrease ...	9,857
Receipts per mile for week ending 30th August 1890 ...	
Corresponding period of 1889 ...	Rs. A. P. 141 8 6
Decrease ...	334 13 1
Receipts from 1st July to 30th August 1890 ...	
Corresponding period of 1889 ...	66,578
Decrease ...	89,363
Receipts from 1st July to 30th August 1890 ...	
Corresponding period of 1889 ...	28,796

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 6th September 1890 ...	9,934
Corresponding period of 1889 ...	16,067
Decrease ...	6,133
Receipts per mile for week ending 6th September 1890 ...	
Corresponding period of 1889 ...	Rs. A. P. 194 12 7
Decrease ...	316 0 8
Receipts from 1st July to 6th September 1890 ...	
Corresponding period of 1889 ...	76,513
Decrease ...	1,05,430
Receipts from 1st July to 6th September 1890 ...	
Corresponding period of 1889 ...	29,918



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, OCTOBER 15, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RESOLUTION ON THE TRIENNIAL REPORT ON THE WORKING OF CHARITABLE DISPENSARIES UNDER THE GOVERNMENT OF BENGAL FOR THE YEARS 1887, 1888 AND 1889.

MEDICAL.

Dated Darjiling, the 6th October 1890.

READ—

The Triennial Report on the working of Charitable Dispensaries under the Government of Bengal for the years 1887, 1888 and 1889.

Read also—

The Annual Report for 1886 and the Resolution recorded thereon.

Dr. Hilson's triennial report on the working of the charitable dispensaries under the Government of Bengal is a satisfactory document, which records much progress in the popularity and usefulness of these institutions throughout the province, and reflects much credit on the Inspector-General himself, to whose administrative energy and perseverance a large proportion of this encouraging result is due.

The post of Inspector-General of Civil Hospitals was held, during the past three years, by Dr. A. J. Cowie, from January 1887 to April 1888, and again from November 1888 to April 1889, and by Dr. A. H. Hilson in the intervening months, and from May 1889 to the end of the year. Dr. Hilson has brought to bear upon his work a large experience of other provinces, which has been of great service to him in reorganizing the medical institutions of Bengal, and his present report, which is full of interest and yet not too long shows that, while much has been done to improve the facilities for the introduction of medical skill and science in the mofussil, much yet remains to be done before this province, which is in many respects one of the most unhealthy in India, can rival the more northern provinces in the management and efficiency of its charitable dispensaries.

2. The total number of dispensaries in Bengal has increased from 234 in 1886 to 261 in 1889; of this last number 125 are in class II and are under the management of local bodies, and the Inspector-General brings to notice the fact that there are several other institutions which might well be made over to the management of local Municipalities or District Boards. The Lieutenant-Governor is prepared to consider any recommendations which Dr. Hilson may wish to make in specific instances.

3. The interest taken by Municipalities and District Boards in the charitable medical institutions placed in their charge is favourably noticed by the Inspector-General, who at the same time comments on the indifference shown by many local Committees in the control of their dispensaries. His Honour is of opinion that the individuality of the medical officers attached to the various dispensaries has much to do with this, but would at the same time impress on the Chairmen and members of local bodies the importance of supervision and encouragement in the case of institutions of such practical usefulness as these, and would remind them that the remarks recorded by unofficial visitors in the inspection-books provided for the purpose are often of the greatest service to the authorities in remedying defects and detecting abuses. Sir Steuart Bayley regrets to notice that although there was an improvement in the figures of the number of inspections made by Civil Surgeons, there are still a large number of dispensaries which are only visited once instead of twice in the year.

4. The figures of attendance, both out-door and in-door, have steadily increased in the past three years, as is shown in the following table:—

		DIVISIONS.									
YEAR.		Burdwan.	Presidency.	Rajshahye.	Orissa.	Decca.	Chittisrong.	Palna.	Bhagulpur.	Chota Nagpur.	GRAND TOTAL.
1887	{ In-door ...	3,674	2,681	2,422	1,038	3,791	625	6,630	1,996	963	24,474
	{ Out-door ...	140,217	138,238	126,763	62,080	106,827	21,059	316,513	80,214	28,441	1,035,405
1888	{ In-door ...	3,580	3,812	2,404	1,960	3,745	781	6,942	2,445	1,102	25,751
	{ Out-door ...	145,572	142,882	124,540	65,242	105,246	23,018	34,082	91,001	27,899	1,100,700
1889	{ In-door ...	3,080	2,970	2,848	2,770	4,135	551	7,058	2,044	1,141	25,081
	{ Out-door ...	152,513	150,873	155,270	74,708	113,333	23,193	364,544	94,361	30,190	1,170,845

The proportion of persons treated, both indoors and out of doors, to population is very low, and it is only in a few exceptional areas that it touches 3 per cent., the total for the province being in 1889 1,208,824 persons treated out of a population of 69,536,861, or 1·73 per cent. But, on the other hand, it may be added that the returns from dispensaries are becoming more accurate year by year, and the steady increase in numbers, in spite of the elimination of many fictitious returns of large attendance, is clearly a matter for congratulation.

5. On the subject of in-door patients, Dr. Hilson remarks:—

“The native of India, when sick, prefers to be treated at his own house, and at such a time will not leave his family if it can possibly be avoided—a characteristic which seems to be more strongly marked in Bengal than elsewhere. The desire is only natural, and he cannot be blamed for it; but it seems to me that one cause of it is to be found in the very limited provision of separate accommodation for the families of patients at dispensaries, and this is a point well worth the attention of Municipal Committees and others interested in these institutions. In the Punjab and North-Western Provinces many of the dispensaries have a few rooms apart from the main building, which are reserved for the accommodation of well-to-do patients and those who bring relatives with them, and they are largely taken advantage of.”

Sir Steuart Bayley would be glad to see the above proposal carried out, as he has no doubt that the defect pointed out by the Inspector-General is a serious one. Dr. Hilson records many valuable remarks on the subject of various dispensaries at which the mortality among in-door patients was high, and it is worthy of notice that it is at the various shrines to which pilgrims resort that the mortality is found to be highest, the fatigue and poverty of the pilgrims rendering them an easy prey to attacks of cholera and dysentery. The mortality among in-door patients was 12·71 per cent. in 1887, 12·77 per cent. in 1888, and 13·9 per cent. in 1889.

6. The increase in the number of out-door patients is very satisfactory, and speaks well for the improved management and popularity of the charitable dispensaries in the mofussil. The Lieutenant-Governor has no doubt that, as remarked by Dr. Hilson, the professional qualifications of the officer in charge

of a dispensary greatly affect its popularity, and local Municipalities and others who have the management of these institutions would do well to bear in mind his warning that an excellent building and a full stock of medicines and medical comforts will not be of much service if the officer in charge is not a skilled practitioner, who is earnest and devoted to his work.

7. Very few cases of small-pox are treated in dispensaries, although the disease continues to be prevalent in several districts. Cholera is dealt with in almost all such institutions, but they are not sufficiently large or adequately equipped to deal with anything approaching to an epidemic of this disease. The number of cases of malarial fever increased from 202,933 in 1887 to 232,582 in 1889, and in the latter year formed a percentage of 19·24 of the total number of cases treated. This disease is most prevalent in the Burdwan, Presidency and Rajshahye Divisions. The proportion of cases of malarial fever in the Presidency Division has increased from 26·68 per cent. in 1887 to 30·28 per cent. in 1889. On this subject Dr. Hilson remarks—

“Malarial fevers are not more common in Bengal than in other Indian provinces, but they have this peculiarity that they are usually of a more severe and fatal type, which is probably due to the damp, relaxing nature of the climate. They leave their traces behind in the form of anæmia, enlarged spleen, diarrhoea, and dysentery, and it has truly been said that if the prevalence of malarial fever could be abolished one-half the diseases of the country would disappear with them.”

The Inspector-General shows that very few lepers resort to charitable dispensaries for relief, the average number treated in these institutions in the past three years being only 2,525. His general remarks on the nature of the disease and its contagious and non-contagious properties are of great value as showing how much remains to be done before it can be asserted with any confidence that the disease is understood, or that it can be effectively dealt with by segregation even of the strictest kind.

8. The increase in the number of surgical operations is very satisfactory, and the Lieutenant-Governor agrees with Dr. Hilson in thinking that successful operative surgery is greatly appreciated by the poorer classes, and that the performance of major operations by qualified Assistant Surgeons adds much to the popularity of mofussil dispensaries. The very large attendance at the Chupra and Monghyr dispensaries, where the Assistant Surgeons, the late Babu Aghore Nath Bose and Babu Upendro Nath Sen, especially distinguished themselves by their success in surgical work, tends to support this view, and His Honour hopes that every encouragement will be given to such medical subordinates as may show good results in the exercise of this branch of their profession. These remarks more especially apply to cases of cataract, and there can be no doubt that success in restoring failing sight has great influence on the popular mind.

9. The following statement, which shows at a glance the financial position of the charitable medical institutions of Bengal for the past three years, is reproduced *in extenso* from the Inspector-General's report:—

	Income.								
	1887.			1888.			1889.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Cash balance on 1st January ...	25,753	7	1	33,536	5	7	38,783	13	1
From Government—									
As salaries ...	15,445	7	1	15,018	10	8	15,978	3	10
As registers and forms ...	1,794	10	8	2,156	1	0	2,066	13	10
As European medicines ...	487	3	0	702	12	6	573	10	1
For diet of police cases ..	1,842	0	9	2,109	3	8	2,338	5	1
Sale of medicines ...	.....							
Special allowances ...	1,979	8	1	2,082	6	4	1,963	14	9
Total ...	21,548	13	7	22,069	2	2	22,920	15	7
From local or other funds ...	58,385	5	7	71,845	15	6	61,832	13	5
From municipal funds ...	1,47,681	1	6	1,53,582	14	6	1,61,843	7	1
Interest on investments ...	29,215	6	7	31,958	3	2	36,750	12	5
Sale of securities or withdraw- al of deposits ...	20,191	12	11	25,524	14	9	14,462	5	8
European subscriptions ...	14,667	12	0	13,529	4	3	17,115	0	10
Native subscriptions ...	1,10,462	12	0	1,01,275	3	10	1,19,623	11	0
Total income ...	4,28,506	7	3	4,53,321	15	9	4,73,332	15	1

Expenditure.											
1887.				1888.				1889.			
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.		
On establishment	2,15,873	4	5	2,28,490	7	5	2,37,905	8	1		
„ bazar medicines	9,711	10	2	10,001	13	4	10,452	7	10		
„ European medicines, whether from Govern- ment store or purchased otherwise	46,895	14	4	47,787	13	6	55,368	12	11		
„ diet	36,975	12	8	41,442	0	8	46,798	1	8		
„ miscellaneous charges	27,174	3	11	29,157	6	3	34,081	6	11		
„ buildings or repairs	36,091	14	2	38,718	14	7	38,136	1	0		
Invested during the year	22 027	4	6	18,796	6	1	14,352	13	4		
Total expenditure	3,94,750	0	2	4,14,394	13	10	4,57,095	8	9		
Cash balance on 31st Decem- ber	33,756	7	1	38,927	1	11	36,237	11	4		

The variations in the figures shown as closing balance on 31st December and opening balance on 1st January are fully explained by Dr. Hilson, and are due to the correction of the accounts of various dispensaries at the close of the year. The figures are very satisfactory, and show that these medical charities are well and liberally supported and are in a flourishing financial position. The total amount of the subscriptions, both from Europeans and Natives, has largely increased, and municipal and local bodies deserve the Inspector-General's congratulations on the co-operation of the general public that these figures disclose.

The increase in expenditure is inevitable in the face of the extension of medical aid to the poorer classes, and Dr. Hilson notices with regret that in many cases a laudable desire for economy has led to restriction of the pay of the officers employed to that of the lowest grade of Assistant Surgeons—a form of economy which is open to criticism. It is, however, not improbable that in some cases not more than this scale of pay can really be afforded, and that an effort is made in order to obtain the services of an officer of qualifications superior to those of a Hospital Assistant. The whole question of the appointment of officers to the control of dispensaries has lately been again brought under the consideration of Government, and it will be separately dealt with by the Lieutenant-Governor after consulting the Municipal Department and the Commissioners of Divisions; it is therefore unnecessary to make further comment on the remarks on this subject contained in the Inspector-General's present report.

10. The notes and statistical tables which are appended to the report are full of interesting detail and form a record of much good work. Sir Steuart Bayley agrees with the Inspector-General in his commendation of certain Assistant Surgeons who have shown exceptional ability in various branches of their profession, and their names will be noted for future guidance.

ORDER.—Ordered that a copy of the Resolution, together with a copy of the Report, be submitted to the Government of India, Home Department, for information.

Ordered also that a copy of the Resolution be forwarded to the Inspector-General of Civil Hospitals, to the Municipal Department of this Government, and to all Commissioners of Divisions for information, and that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

**RESOLUTION ON THE REPORT OF THE ADMINISTRATION OF THE
STAMP DEPARTMENT DURING THE THREE YEARS
ENDING 31ST MARCH 1890.**

FINANCIAL DEPARTMENT—STAMPS.

Darjeeling, the 7th October 1890.

RESOLUTION.

READ—

The Report of the Board of Revenue on the Administration of the Stamp Department during the three years ending 31st March 1890.

The present report is the first which has been submitted under the triennial system introduced by the orders of the Government of India, No. 4417 of 23rd August 1887, statistical information only with brief explanatory notes having been supplied in the two previous years. The Acts under which the stamp revenue was collected during the period under review were the Indian Stamp Act I of 1879 and the Court-fees Act VII of 1870 as modified by subsequent enactments. Under the orders of the Government of India, the copying fee has been reduced from four to three annas per folio from 1st April 1890. From 1st April 1888 the rate of discount on the sale of court-fee stamps of all values above one rupee has been reduced from 3 pies to 1½ pie per rupee. The other changes in the law and rules issued by Government are not of sufficient importance to call for special notice.

2. The financial results of the administration of the Stamp Department during the past four years, according to the returns furnished by the Accountant-General, are shown in

Stamp revenue.

the following table:—

YEAR.	STAMPS UNDER ACT I OF 1879.			COURT FEES UNDER ACT VII OF 1870.			TOTAL.		
	Receipts.	Refunds and other charges.	Net revenue.	Receipts.	Refunds and other charges.	Net revenue.	Receipts.	Charges.	Net revenue.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1886-87	34,72,802	1,60,208	32,83,599	90,80,759	4,21,010	86,59,749	1,34,62,561	6,10,308	1,28,52,253
1887-88	35,51,223	2,55,232	32,96,011	1,02,04,722	5,00,835	97,03,887	1,38,16,035	6,16,077	1,31,99,958
1888-89	37,60,871	2,78,042	34,74,829	1,00,08,116	3,39,661	97,46,453	1,36,38,085	6,16,703	1,30,21,382
1889-90	38,89,965	2,58,699	36,00,266	1,03,48,824	3,36,586	1,00,09,238	1,42,87,760	6,28,544	1,36,59,216
Average of 1887-88 to 1889-90	37,50,866	2,73,784	34,67,082	1,03,33,907	3,46,084	99,87,823	1,39,64,243	6,20,008	1,33,44,235

The gross average annual revenue collected under both the Acts during the three years under review was Rs. 1,39,64,263 against Rs. 1,34,62,561 in 1886-87. Both judicial and non-judicial stamps contributed to the increase; the total realizations during 1889-90 exceeded those of any previous year. The average receipts were highest in Calcutta (Rs. 19,51,882) and lowest in Singhbhum (Rs. 10,833). The incidence is highest throughout East and Central Bengal, where trade is brisk and the population most prosperous. The general incidence of stamp revenue on the population of Bengal, estimated at 66 millions, is 3 annas 4½ pies per head.

3. Another table which has been compiled in the office of the Superintendent of Stamps shows the receipts from sales of the different descriptions of stamps during the same period. The figures will differ from those given in the previous statement, inasmuch as they do not include miscellaneous receipts or receipts from the sale of plain paper prescribed by the High Court for use with court-fee stamps. They show stamp sales only, but apart from these differences there

Stamp sales.

is a small discrepancy with the Accountant-General's figures which is under adjustment:—

YEAR.	SALES OF NON-JUDICIAL STAMPS USED UNDER THE INDIAN STAMP ACT.										SALES OF JUDICIAL STAMPS OR STAMPS USED UNDER THE COURT-FEE ACT.				Total of both kinds of stamps.
	Impressed sheets, including certificate stamps, salt bonds, P. W. D. forms, bills of lading and kabuli-yat form stamps.	Impressed labels.	Receipt or one-anna revenue stamps.	Share transfer stamps.	Foreign bill stamps.	Hundi or bills-of-exchange stamps.	Notarial stamps.	Advocate, vakil, and attorney stamps.	Impressed one-anna stamps for cheques, bills, &c.	Total of non-judicial stamps.	Adhesive and impressed court-fee stamps.	Stamps for copies.	Total of stamps.		
1886-87	Rs. 23,71,386	Rs. 5,85,402	Rs. 2,32,638	Rs. 17,771	Rs. 30,065	Rs. 80,043	Rs. 4,675	Rs. 10,000	Rs. 44,616	Rs. 33,02,184	Rs. 93,04,760	Rs. 5,00,368	Rs. 98,18,128	Rs. 1,32,05,312	
1887-88	24,19,372	5,70,244	2,22,853	32,034	60,061	96,210	3,820	7,250	40,283	34,51,261	95,50,446	5,48,869	1,00,79,865	1,35,30,000	
1888-89	25,71,263	6,32,463	2,24,704	41,840	51,318	1,11,754	3,014	12,750	49,207	37,04,403	93,23,219	5,71,915	98,95,134	1,35,00,000	
1889-90	26,49,643	6,41,937	2,40,757	20,089	42,731	1,18,073	3,114	15,750	47,280	38,26,523	95,71,530	5,79,875	1,01,51,415	1,39,77,937	
Average of three years, 1887-88 to 1889-90.	25,57,959	6,10,879	2,30,634	34,714	48,243	1,05,679	3,140	11,916	46,250	36,60,725	94,75,068	5,66,883	1,00,41,951	1,37,08,000	

There has been a steady increase in non-judicial stamp sales, which was shared by almost all classes of stamps. The average yearly receipts of impressed sheets, which are the most important of non-judicial stamps, show an increase of Rs. 1,86,573, or 7·8 per cent., as compared with the receipts in 1886-87. The increase was contributed by 39 districts, notably Mymensingh, and is ascribed to the normal growth of business and a growing tendency to substitute written agreements for verbal contracts. Impressed labels, which are available only in Calcutta, show an increase of Rs. 31,387, or 5·3 per cent. The sale of one-anna revenue stamps, commonly known as receipt stamps, shows a falling off of Rs. 2,003, or 8 per cent., as compared with 1886-87, but an increase of Rs. 11,963 in 1889-90 as compared with the preceding year. The other classes of non-judicial stamps, which are of minor importance, show increases of Rs. 16,943 under share transfer stamps, Rs. 9,278 under foreign bill stamps, and Rs. 22,236 under hundi or bills-of-exchange stamps, and a decrease of Rs. 1,424 under notarial stamps.

4. The average income of the past three years from the sales of judicial stamps is Rs. 91,67,320 under court-fee stamps, Rs. 2,333 under High Court service stamps, Rs. 3,05,415 under Calcutta Small Cause Court stamps, and Rs. 5,66,883 under stamps for copies, making a total of Rs. 1,00,41,951, an increase of Rs. 2,28,823, or 2·3 per cent., over the income from the same sources in 1886-87. The largest increases were in Midnapore (Rs. 52,511), Tipperah (Rs. 46,256) Monghyr (Rs. 40,500), Rungpore (Rs. 29,054), Calcutta (Rs. 23,996) Mozufferpore (Rs. 23,037), Mymensingh (Rs. 20,608), Khoolna (Rs. 15,693); and the largest decreases were in Pubna (Rs. 33,635), 24-Pergunnahs (Rs. 28,990), Nuddea (Rs. 12,753), Bhagulpore (Rs. 11,592), and Gya (Rs. 10,069). Taking each denomination of court-fee stamps sold during the period under review, there was an increase of nearly 3 lakhs in the sale of one-anna stamps, $2\frac{1}{2}$ lakhs in that of $\frac{1}{2}$ -anna stamps, $2\frac{1}{2}$ lakhs in that of 12-annas stamps, and $2\frac{1}{2}$ lakhs in that of 1-rupee stamps, and a decrease of a lakh under 6-annas, Rs. 49,579 under 2-rupees, and Rs. 16,123 under 4-rupees stamps. The decrease in the sales of stamps of higher values, accompanied by an increase in the sales of stamps of lower values, is probably due to the fact that stamps of lower values on which the higher rate of discount is still allowed are used in combination for stamps of higher values on which the discount has been reduced.

5. The revenue from the sale of stamps of all classes has increased from Rs. 87,88,026 in 1874-75 to Rs. 1,27,76,907 in 1884-85 and to Rs. 1,39,77,937 in 1889-90.

6. The number of cases in which deficient stamp duty and penalty were levied by Civil and Revenue Courts during the last four years, and the amount realized in these cases, are exhibited in the following table:—

Levy of penalties.

YEAR.	NUMBER OF CASES.		AMOUNT OF DUTY AND PENALTY REALIZED.		TOTAL.	
	Civil Courts.	Revenue officers.	By Civil Courts.	By Revenue officers.	Cases.	Amount.
1886-87	1,871	2,173	Rs. 12,337	Rs. 21,643	3,544	Rs. 33,980
1887-88	1,400	2,123	10,553	23,010	3,523	33,563
1888-89	1,477	2,076	11,107	22,022	3,553	33,129
1889-90	1,338	2,399	11,127	24,869	3,737	36,006
Average of three years, 1887-88 to 1889-90 ...	1,334	2,198	10,953	21,208	3,533	34,220
Average increase in the triennium compared with 1886-87 ... ..	.....	25	.....	1,655	.....	250
Average decrease in the triennium compared with 1886-87	37	.....	1,385	.....	7	.....

7. The average number of prosecutions instituted for various breaches of the stamp law was 816. The average number of persons brought to trial was 929, of convictions 740, and of acquittals 116. The average amount of fines imposed by Magistrates was Rs. 6,626, while Rs. 1,756 were disbursed as rewards to informers. The Board bring to notice the fact that not a single rupee was paid as reward in the Patna, Orissa, and Chota Nagpore Divisions, in three out of the four districts of the Bhagulpore Division, in five out of the seven districts of the Rajshahye Division, in four out of the six districts of the Presidency Division, and in three out of the five districts of the Burdwan Division. This would seem to show that this important subject has not met with due attention on the part of local officers, for it is on the encouragement afforded by a liberal distribution of rewards that detection of infringements of the stamp law must largely depend.

8. The Board dwell at some length in their report on the evasion of duty in respect of probates, letters and certificates of administration, and remark on the absolute necessity of providing some agency for checking the valuation of estates of deceased persons by executors, and also for adjudicating on the valuations when objected to. This question has already formed the subject of a special correspondence between the Board, the High Court, and the Government, and the Lieutenant-Governor would prefer to deal with it separately from the triennial report.

9. The Lieutenant-Governor's acknowledgments are due to the Board for their careful administration of the Stamp Department. The names of the officers who have been mentioned as specially deserving of credit will be noted in the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 11th October, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BUCKHAW DIV.	1 Burdwan Oct. 11, '90	0.13	Weather—hot. Prospects of <i>aman</i> and sugarcane good. Prices of common rice:— Srs. Burdwan ... 16½ Culina ... 15 Cutwa ... 16½ Ranigunge ... 18 } per rupee.
	Culina ...	1.60	
	Cutwa ...	1.17	
	Ranigunge ...	0.01	
	2 Bankura .. 11, '90	Nil	
	3 Birbhum .. 11, '90	Nil	Weather—warm and cloudy. A smart shower on the 11th. Harvesting of <i>aus</i> paddy proceeding. Prospects of <i>aman</i> paddy continue good. Common rice selling at 19 seers per rupee at the Sudder station and 17½ seers at Bissinapore.
	Ranpore Haut ...	0.75	
	4 Midnapur .. 11, '90	0.22	Stems seem to be gathering, and some good showers may be expected. Prospects of crops as good as can be all over the district. Price of rice 17 to 18½ seers per rupee.
	5 Hooghly .. 11, '90	Nil	
	Serampore ...	0.59	Weather—sultry with occasional slight showers. Prospects of crops in irrigated areas excellent, elsewhere fairly good. Some complaints of too much rain in the Contai subdivision. Indigo being sown. Prices of common rice:— Srs. Sudder ... 15 Contai ... 19 Tumlook ... 15 Ghatal ... 16 } per rupee.
	Jehanabad ...	0.55	
PRESIDENCY DIV.	Howrah .. 11, '90	0.08	Weather—clear. Temperature increasing. Prospects excellent. Outturn of jute and <i>aus</i> estimated at 12 annas. Prices of common rice:— Srs. Sudder ... 18 Serampore ... 13 Jehanabad ... 16 } per rupee.
	Ulubariah ...	0.18	
	Central Districts.		Weather—generally fine. Prospects of crops satisfactory. <i>Aman</i> crop doing well. Price of common rice 14 seers per rupee.
	6 24-Parghs. Oct. 14, '90	1.72	
	7 Naddea .. 11, '90	0.27	Weather—rainy, overcast and unsettled at the end of the week. Prospects of <i>aman</i> paddy continue excellent except in the small flooded area of the Bussirhat subdivision. Lands being prepared for <i>rabbi</i> crops. Prices stationary.
	Kushtea ...	Nil	
	Meherpore ...	1.25	Weather—seasonable. <i>Aman</i> rice doing well. Sowing of winter crops going on. No change in the price of rice.
	Chudanga ...	0.41	
	Ranaghat ...	0.54	Weather—bright and warm. Transplantation of <i>aman</i> nearly completed. Prospects good except in the flooded thanas.
	8 Khoolna .. 11, '90	0.84	
RAJSHAHY DIV.	Bagirhat ...	Nil	Weather—warm and fine. Prospects very good in Magurah and Narail. Sowings of cold-weather crops in progress. Price of rice steady.
	Satkhira ...	0.03	
	9 Jessora .. 11, '90	0.69	Weather—bright and clear. Prospects of <i>aman</i> favourable. <i>Kalai</i> is still being sown. It is being resown on lands submerged by the recent rise of the rivers. Water gradually going down. Agricultural loans and gratuitous relief are still being given.
	Jhenidab ...	0.15	
	Magura ...	Nil	Weather—seasonable. Prospects continue favourable. Outturn of <i>kaimanti</i> rice may at present be estimated at almost 20 annas. Price of rice unchanged.
	Narail ...	0.76	
	Bongung ...	0.60	Weather—dry; clouds passing; rainy to-day (11th). <i>Aus</i> paddy gathered. Jute steeping and cleaning continue. Other crops thriving and flood receding. Prospect of <i>kaimanti</i> paddy good. A tornado passed over villages Jonail and Dighail in subdivision Nattore south to north, rising from Bulsatil towards Baalchalan. About 22,000 bighas paddy and some 400 houses destroyed.
	10 Moorshedabad .. 11, '90	Nil	
	11 Dinagpur .. 11, '90	0.40	Weather—cool and pleasant in the morning, but sultry later on. Rain is evidently impending. The mischief done by the storm of the 26th—28th extends over 200 villages which have lost the greater part of their crops. A tornado with a course of 2 miles in length by 120 feet in diameter has swept everything away on its track. Generally, however, prospects are excellent all round.
	Thakurgaon ...	0.11	
RAJSHAHY DIV.	12 Rajshahye .. 11, '90	2.08	Weather—fine, with northerly breeze. Hot sun. The recent flood in the north and west of the district has destroyed or damaged a considerable area of transplanted rice: in those parts the outturn on the whole may perhaps be 10 annas, but the inquiries are not yet complete. Some jute has also been destroyed, but the outturn has been on the whole very large. The broadcast <i>aman</i> has been rather benefited, and elsewhere the <i>aman</i> rice of both kinds is mostly in excellent condition. Sugarcane promises generally well. Ploughing is going on, and mustard and <i>kalai</i> are being sown. Common rice is selling at 18 seers per rupee.
	Natore ...	0.08	
	Nowgong ...	0.39	Weather—rather hot. <i>Rabbi</i> sowings have commenced. Prospects of winter crops continue as before. Prices of food-grains have risen higher.
	13 Rangpur .. 11, '90	Nil	
	Nilphamari ...	1.23	Weather—fair. Prospects good. <i>Kaimanti</i> paddy doing well in Terai. Lands being prepared for <i>rabbi</i> crops.
	Kurigram ...	2.90	
	Gaibanda ...	1.45	Weather—hot and cloudy. Prospects of all crops generally good. Harvesting of jute continues. Price of rice unchanged.
	14 Bogra .. 11, '90	Nil	
	Sherpur ...	0.03	
	Nowkhilla ...	Nil	
RAJSHAHY DIV.	15 Pubna .. 11, '90	Nil	
	16 Darjeeling .. 11, '90	0.07	
	Siliguri ...	1.73	
RAJSHAHY DIV.	17 Jalpigoree .. 11, '90	3.13	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
Dacca Div.	18 Dacca Oct. 11, '90	1.12	Weather—hot and fine. Harvesting of jute nearly completed. <i>Amun</i> doing well. <i>Assini</i> paddy being harvested. Fodder is available. Common rice sold at from 14 to 15 seers per rupee.
	19 Furreedpur „ 11, '90	Nil	Weather—seasonable. State of <i>amun</i> crop fair. Common rice selling at 12 seers per rupee at the head-quarters station, and 13 and 14 seers per rupee at Goalundo and Madaripore respectively.
	20 Backergunge „ 11, '90	0.74	Weather—seasonable. State and prospects of standing crops good. Common rice selling at about 13½ seers per rupee.
	21 Mymensingh „ 11, '90	0.59	Days hot and sultry with occasional clouds. Mornings cool. Harvesting of jute continues. Prospects of <i>amun</i> paddy favourable. Coarse rice sells at 12½ seers per rupee.
CHITTAGONG Div.	22 Chittagong „ 11, '90	1.02	Weather—seasonable. <i>Amun</i> has been reaped, and the outturn is up to the average. Prospects of <i>amun</i> good. Prices steady.
	23 Noakholly „ 11, '90	0.89	Weather—variable: very warm and sultry. State of <i>amun</i> plants good. Price of rice stationary.
	24 Tipperah „ 11, '90	0.10	Weather—hot; calm. Jute cutting almost completed. Standing crops promise well. <i>Amun</i> expected to yield 16 annas. Prices stationary.
	25 Chittagong Hill Tracts. „ 9, '90	0.51	Weather—very hot and close throughout the week, but a fall of rain on the 8th has lowered the temperature. Harvesting of <i>jum</i> paddy continues. Late rice in low lands progressing. Lands being ploughed for mustard. Common rice being sold at 12½ seers per rupee.
BEHAR.	Hill Tipperah „ „	...	Report not received.
	26 Patna „ 11, '90	Nil	Weather—hot. Paddy and other crops on the ground are doing well. <i>Rubbi</i> and poppy fields are being ploughed. In some places sowing of <i>rubbi</i> crops has been commenced. Prices of food-grains almost stationary.
	Barh „ „	Nil	
	Behar „ „	Nil	
PATNA Div.	Dinapore „ „	0.27	
	27 Gya „ 11, '90	Nil	Weather—seasonable. Prospects of paddy favourable. Sowings of <i>rubbi</i> commenced. Sugarcane doing well. Prices of food-grains falling.
	28 Shahabad „ 11, '90	Nil	Weather—fine and sunny. Signs of cold weather. Prospects of crops good. Prices stationary in subdivisions; slight rise reported in Arrah.
	Buxar „ „	Nil	
BAGHPORE Div.	Bhabuah „ „	Nil	
	Sanseraun „ „	Nil	
	29 Darbhanga „ 11, '90	Nil	Weather—mornings and nights getting cool, but days still hot. The late <i>kathia</i> rain has done much good to the crops, but some rain is still wanted for the rice crop on high lands. <i>Rubbi</i> sowings commenced. Transplanting of tobacco in progress. Prices almost stationary.
	30 Moazferpur „ 11, '90	Nil	Weather—dry and still warm. Prospects of rice crop excellent, especially in the Sitamarhi subdivision. Sowing of <i>rubbi</i> crops proceeding. Prices stationary.
BAGHPORE Div.	Hajipur „ „	Nil	
	Sitamarhi „ „	Nil	
	31 Saran „ 11, '90	0.05	Weather—seasonable and fine. Prospects of crops excellent. Preparation of land for <i>rubbi</i> going on. Mustard already sown in places.
	32 Champaran „ 11, '90	Nil	Weather—seasonable. A little cloudy since last night (10th). Rains apparently over. Prospects of paddy very good. Ploughing of fields for <i>rubbi</i> sowings commenced.
BAGHPORE Div.	33 Monghyr „ 11, '90	Nil	Weather—days hot and nights comparatively cool. Prospects of winter rice continue favourable. <i>Rubbi</i> sowings in progress and prospects good.
	Begusarai „ „	Nil	
	Jamui „ „	0.12	
	34 Bhagalpore „ 11, '90	Nil	Weather—hot sun. Mornings and evenings fresh and cool. Prospects of rice crop excellent. Lands being prepared for <i>rubbi</i> crops.
BAGHPORE Div.	Banka „ „	Nil	
	Mudhepura „ „	0.82	
	Sopool „ „	0.15	
	35 Purneah „ 11, '90	0.85	Weather—fine with fresh mornings. Prospects everywhere favourable. <i>Rubbi</i> crops being sown. <i>Kurki</i> germinating. Prices stationary.
BAGHPORE Div.	Kishengunge „ „	0.25	
	Arracah „ „	0.41	
	36 Maldah „ 11, '90	0.14	Weather—first part of the week hot and bright, latter part unsettled. Sowing of <i>kalai</i> pulse is progressing. Prospects of winter rice continue favourable, and land is being prepared for <i>rubbi</i> crops. Common rice selling at from 13 to 18 seers per rupee.
	Chanchal „ „	Nil	
BAGHPORE Div.	Shibgunge „ „	Nil	
	Gajole „ „	0.10	
	37 Southal Pergah. „ 11, '90	0.79	Weather—very hot. Cloudy with occasional storms. Prospects of paddy crop excellent. <i>Rubbi</i> sowings have begun.
	Deoghur „ „	Nil	
	Godda „ „	0.95	
	Jamtara „ „	0.44	
BAGHPORE Div.	Pakour „ „	0.22	
	Rajmahal „ „	0.11	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack Oct. 11, '90	Nil	Weather—dry and hot. Sowing of <i>rubbi</i> continues. General prospects of crops good.
	39 Pooree „ 9, '90	0.75	Weather—seasonable. <i>Sarad</i> crop is being weeded. <i>Mondia</i> is being harvested. Miscellaneous crops doing well. Price of common rice 18 seers 4 chittacks to 26 seers 4 chittacks per rupee.
	Khoorda „ ...	1.54	
	Banpur „ ...	Nil	
40 Balasore „ 11, '90		0.08	Weather—cooler. Condition of the rice crop is generally fair except in the north-east of the district. More rain is now wanted.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Hazaribagh Oct. 11, '90	1.10	Weather—seasonable. Prospects of winter rice continue excellent. Sugarcane doing well. <i>Rubbi</i> crops being sown.
	42 Lohardugga „ 11, '90	0.11	Weather—seasonable. Harvesting of <i>gora</i> rice continues. Prospect of winter rice favourable. Ploughing of <i>rubbi</i> lands is being carried on.
	Palamow (up to 6th Oct.)	Nil	
	43 Singbhoom Oct. 11, '90	0.28	Weather—seasonable. Prospects satisfactory. Outturn of high-land paddy will be 8 to 12 annas, and low-land paddy is expected to yield 12 to 16 annas. Other crops are also doing well. Prices stationary.
	44 Manbhoom „ 11, '90	Nil	Weather—hot during the day, cool in the night. Excepting Jhalda, where heavy rain is reported, there was little or no rain during the week. Prospects of crops good. Coarse rice selling at from 16 to 24 seers per rupee.
	Govindpore „ ...	Nil	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 14th October, 1890.

C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

STOCK IN HAND AS COMPILED ON—

NAME OF MART.	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.	1st week of August 1890.	1st week of Sept. 1890.	1st week of Oct. 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Balinghatta	5,08,000	4,54,000	2,98,500	3,00,000	5,48,000	9,31,100	15,22,500	10,94,000	9,35,500	7,54,000	6,42,000	8,41,000	4,10,000
Ootadanga	71,900	87,400	85,400	63,400	83,900	1,02,500	1,12,500	86,500	81,700	74,900	67,800	73,200	65,200
Chitpora, Golabarea, Coomer- tooly, Hathkole, and Gulp Ghat.	6,74,100	6,32,900	5,84,000	6,00,400	5,98,900	5,83,800	5,91,000	5,37,900	4,79,200	4,96,100	5,10,500	6,07,500	6,43,100
Pathuriachatta, Posta, and Jorabagan.	5,000	8,000	3,000	4,000	5,400	4,000	3,000	4,000	3,500	4,000	2,000	4,000	5,000
Tallygunge, Chittah, Kidderpore, and Moonshirunge.	64,550	65,900	68,100	82,750	96,100	1,31,500	1,36,650	1,33,900	1,19,450	1,04,700	98,000	94,200	1,09,200
21 Minor Bazaar (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,120 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boldyabatty, Nowabgunge, Bhuddreour, and Chander- nagore.	14,388	13,410	14,090	36,425	19,000	33,400	31,236	19,300	22,762	45,979	55,927	45,481	47,075
Total ...	18,25,933	17,31,310	15,18,090	16,08,975	19,43,506	22,06,300	23,77,376	23,64,090	21,83,112	19,69,579	18,65,187	18,55,491	17,67,175
On Railway premises on both sides of the river.	5,308 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd Dec. 1889.)	28,007 (on 3rd Jan. 1890.)	29,935 (on 3rd Feb. 1890.)	47,998 (on 3rd Mar. 1890.)	24,998 (on 3rd Apr. 1890.)	24,633 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,533 (on 3rd July 1890.)	2,371 (on 3rd August 1890.)	13,684 (on 3rd Sept. 1890.)	11,155 (on 3rd October 1890.)
On boats un- loaded ...	17,683 (5th to 7th Oct. 1889.)	21,394 (1st to 3rd Nov. 1889.)	29,050 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,798 (1st to 3rd Feb. 1890.)	86,599 (1st to 3rd Mar. 1890.)	87,745 (1st to 3rd Apr. 1890.)	30,197 (1st to 3rd May 1890.)	24,756 (1st to 3rd June 1890.)	23,351 (1st to 3rd July 1890.)	54,775 (1st to 3rd August 1890.)	27,157 (1st to 3rd Sept. 1890.)	32,365 (1st to 3rd October 1890.)
By Canal returns	45,922 (5th to 7th Oct. 1889.)	14,718 (1st to 3rd Nov. 1889.)	8,535 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,007 (1st to 3rd Mar. 1890.)	58,619 (1st to 3rd Apr. 1890.)	23,975 (1st to 3rd May 1890.)	23,967 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)	18,546 (1st to 3rd August 1890.)	32,469 (1st to 3rd Sept. 1890.)	23,404 (1st to 3rd October 1890.)
Grand total of Stocks ...	18,97,914	17,61,863	15,40,242	17,90,432	21,61,981	25,06,503	29,98,736	24,43,474	23,45,758	20,30,881	18,40,882	19,28,998	18,84,189
Probable stock available for exportation by sea.	9½ lakhs	7½ lakhs	5 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs	14 lakhs	13 lakhs	11 lakhs	9 lakhs	11 lakhs	7½ lakhs

STATISTICAL DEPARTMENT,
The 7th October, 1890.

C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of April, 1890.

IMPORTS INTO CALCUTTA.

Whence imported.	FOOD-GRAINS.							FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		Tobacco.
	RICE AND PADDY.			Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny-bags, †	Linseed.	Mustard seed.				Drained.	Undrained.	
	Rice.	Paddy.	Total (in rice).														
BENGAL.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Burdwan	1,79,169	2,979	1,81,041	2,134	3,319	88	1,86,568	1,637	8,600	3,353	428	.....	.....	25	.....	420	7
Boorhoom	89,057	.....	89,057	3,024	2,376	.....	95,057	.....	4,095	10,185	138	.....	.....	324	.....	356	164
Midnapore	1,92,882	22,547	2,00,974	.....	1,501	200	2,08,675	.....	2,600	18,593	0,556	.....	5	.....	22	256	.....
Hooghly	33,320	14,400	47,720	5,166	6,836	123	54,601	25,873	202,373	6,480	1,027	.....	899	.....	1,308	21,125	8,393
24 Poreunahs	1,37,828	8,400	1,46,228	54	6,282	.....	1,40,118	29,789	564,298	8,052	200	.....	1,471	.....	10,383	7,651	3,761
Nuddea	10,086	.....	10,086	62,155	88,957	4,073	1,40,171	8,595	1,085	64,388	10,114	.....	76	.....	118	10,808	3,192
Khulna	3,045	1,851	4,896	.....	140	.....	4,302	1,097	.....	1,147	2,863	.....	.....	.....	290	5,404	.....
Jessore	8,282	2,275	10,557	161	3,157	.....	18,022	7,801	1,540	13,200	7,030	.....	142	.....	322	15,093	2,403
Meershedabad	3,280	.....	3,280	2,277	5,000	368	11,825	148	.....	8,140	203	.....	536	.....	.....	.....	.....
Dinapore	25,461	.....	25,461	.....	.....	.....	25,461	251	111,510	4,450	1,079	.....	.....	169	.....	.....	.....
Rajshahye	3,269	.....	3,269	.....	2,536	.....	5,805	2,599	315	.....	1,400	.....	929	.....	.....	.....	.....
Rungpore	.....	.....	.....	.....	.....	.....	.....	63,056	73,275	.....	4,208	.....	.....	.....	.....	.....	18,039
Boera	27,555	.....	27,555	.....	.....	.....	27,555	559	560	1,936	.....	.....	.....	.....	.....	.....	.....
Patna	8	.....	8	.....	9,643	.....	9,643	1,35,434	633,400	263	12,279	.....	.....	.....	.....	.....	114
Darjeeling	.....	.....	.....	.....	.....	.....	.....	336	65,090	.....	1,509	.....	.....	.....	.....	.....	298
Julpigoree	.....	.....	.....	.....	.....	.....	.....	14,414	100,995	.....	1,279	.....	.....	.....	.....	.....	1,235
Dacca	.....	.....	.....	.....	.....	.....	.....	1,31,079	785	1,302	16,320	.....	5,183	.....	.....	.....	.....
Farrakpore	1,750	450	2,201	5,957	2,539	.....	10,417	34,204	1,573	13,789	41,059	.....	1,058	.....	.....	.....	.....
Backergunge	1,47,499	600	1,47,811	.....	.....	.....	1,47,811	2,500	.....	716	1,550	.....	.....	150	128	.....	.....
Mymensingh	.....	.....	.....	.....	5	.....	5	22,218	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tippurah	1,350	.....	1,350	.....	.....	.....	1,350	200	.....	650	180	.....	.....	.....	.....	.....	.....
Chittagong	20	.....	20	.....	.....	.....	20	1,422	.....	.....	13	5,405	.....	.....	.....	.....	.....
Naukholy	9,261	900	9,361	.....	.....	.....	9,361	700	.....	400	350	.....	700	.....	.....	.....	.....
Total of Bengal	8,77,122	57,693	9,10,743	1,01,425	1,33,571	5,702	11,51,444	4,64,032	1,772,640	1,57,324	1,10,639	1,820	15,617	1,632	12,591	31,378	34,643
BEHAR.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Patna	54	.....	54	2,056	70,459	1,785	72,354	254	4,375	1,29,280	28,596	.....	2	.....	481	1,191	57
Gya	.....	.....	.....	2,400	623	.....	3,023	.....	140	31,080	2,435	.....	11	.....	.....	.....	.....
Shahabad	16	.....	16	1,408	2,978	.....	4,386	.....	.....	42,091	4,270	.....	.....	137	4,912	.....	.....
Muzaffarpore	30	.....	30	.....	.....	1,503	1,503	.....	.....	4,773	8,397	.....	.....	.....	.....	.....	.....
Darbhanga	20	.....	20	2,168	309	.....	2,477	.....	105	53,788	83,147	.....	.....	323	946	304	.....
Saran	.....	.....	.....	919	390	.....	1,309	.....	140	6,890	2,054	.....	.....	.....	315	19	.....
Chumpan	.....	.....	.....	1,347	.....	.....	1,347	.....	.....	8,545	32,394	.....	.....	.....	.....	.....	.....
Monchyr	2	.....	2	37,578	40,104	.....	77,682	.....	140	18,802	2,853	.....	9	.....	.....	61	.....
Bhagalpore	359	.....	359	20,714	20,593	11,181	52,447	.....	105	56,070	18,708	.....	.....	.....	2	7	.....
Purneah	6,351	.....	6,351	.....	.....	.....	6,351	1,257	600	593	7,513	.....	9	.....	.....	.....	2,074
Maidah	172	.....	172	1,417	1,441	.....	2,858	.....	.....	977	1,380	.....	.....	.....	.....	.....	.....
Southern Poreunahs.	647	.....	647	83,081	22,043	1,255	1,06,385	.....	315	41,405	10,406	.....	17	68	125	.....	.....
Total of Behar	8,457	.....	8,457	1,53,555	1,06,175	15,728	3,45,458	1,511	5,8901	3,58,917	1,59,351	.....	47	68	1,058	7,402	2,614
ORISSA.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cuttack	101	.....	101	.....	.....	.....	101	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Balasore	1,16,802	16,478	1,33,280	.....	124	.....	1,33,404	445	5,700	102	.....	.....	.....	.....	.....	.....	152
Total of Orissa	1,16,903	16,478	1,33,381	.....	124	.....	1,33,505	445	5,700	102	.....	.....	.....	.....	.....	.....	152
CHOTA NAGPUR.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bazaribagh	.....	.....	.....	.....	.....	.....	.....	.....	945	289	643	3	.....	23	.....	.....	.....
Manbhoom	7,852	.....	7,852	.....	.....	.....	7,852	.....	70	296	4,449	16	.....	.....	.....	.....	.....
Singbhoom	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	535	.....	.....	.....	.....	.....	.....
Total of Chota Nagpur.	7,852	.....	7,852	.....	.....	.....	7,852	.....	1,015	585	5,818	19	.....	23	.....	.....	.....
Grand Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	10,10,394	70,176	10,84,554	2,54,963	2,99,570	21,430	13,36,957	4,66,638	1,785,181	5,46,838	2,75,808	1,839	15,664	1,763	13,646	68,680	37,909
OTHER PROVINCES.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Assam	64	.....	64	.....	.....	.....	64	2,633	.....	4,908	52,550	1,840	8,879	160	.....	.....	.....
North-Western Provinces and Oudh.	28	.....	28	1,60,526	24,100	809	1,85,435	106	1,24,427	30,742	.....	66	40,207	2	64	1,818	.....
Punjab	10	.....	10	402	913	345	1,719	.....	.....	.....	.....	49	10,836	.....	.....	.....	.....
Central Provinces	.....	.....	.....	7,336	.....	.....	7,336	.....	.....	0,713	.....	.....	10	.....	.....	.....	.....
Majputana and Central India.	.....	.....	.....	.....	.....	.....	.....	.....	.....	21,101	.....	.....	25,105	.....	.....	.....	.....
Bombay	37	.....	37	.....	.....	.....	37	.....	.....	.....	.....	.....	14,663	.....	.....	.....	.....
Madras	.....	.....	.....	.....	223	.....	223	.....	.....	.....	.....	.....	1,444	.....	2,741	.....	105
Burma	2,733	.....	2,733	.....	3,908	613	6,254	.....	.....	.....	.....	.....	8,210	.....	.....	.....	.....
Other places	90	.....	90	.....	16	.....	106	184	53,800	.....	.....	.....	3	83,904	.....	.....	33
Grand Total 1890 of Imports in April.	10,13,355	70,176	10,87,216	4,32,337	3,37,049	23,561	18,39,963	4,69,453	1,829,086	7,00,272	3,59,109	3,789	1,28,348	1,927	1,00,328	70,409	37,367
1889	8,32,405	1,11,438	9,02,143	4,24,453	3,71,063	62,180	17,40,865	2,91,557	1,048,232	6,88,067	3,55,079	4,021	61,237	1,909	17,691	1,28,533	61,730

* One moud of paddy is equivalent to 25 seers of rice.

† Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of April, 1890, was as follows:—

EXPORTED FROM CALCUTTA—																
To Indian ports, viz.—																
Bombay	3,01,854	29	3,01,873	.....	50	143	3,02,066	19	4,060,200	.....	41,346	430	.....	1,283	.....	.....
Madras	361	.....	361	.....	0,630	299	6,999	.....	27,000	.....	.....	53	.....	180	.....	.....
Other ports in Madras	2,84,045	839	2,84,884	15	2,577	301	2,87,767	.....	185,023	.....	1,614	.....	3	49	.....	.....
Burmah	7,043	28	7,071	5,723	11,830	267	24,880	893	1,125,700	.....	.....	31	2	574	283	3,571
Other Indian ports	2,080	.....	2,080	123	2,084	.....	5,063	.....	207,950	.....	.....	1	.....	1,844	1,034	2,39
Pondicherry	.....	.....	.....	180	.....	.....	180	.....	207,200	.....	.....	.....	.....	.....	.....	.....
Sind	.....	.....	.....	.....	.....	.....	.....	.....	10,500	.....	.....	.....	.....	.....	.....	.....
Total of Inter-port trade	5,95,949	894	5,96,720	6,080	23,530	1,010	6,20,260	912	5,913,972	.....	42,960	498	31	280	3,862	1,707
To Foreign ports—																
United Kingdom	1,01,537	.....	1,01,537	1,67,862	5,710	.....	3,86,099	4,20,731	1,634,700	5,13,050	46,546	8,870	17,963	446	.....	.....
Other Foreign ports	6,00,273	14	6,00,287	10,589	41,544	9,793	6,62,409	6,78,020	221,042	1,83,137	2,788	2,789	1,80,004	1,055	253	63
Total of Foreign trade	7,01,810	14	7,01,824	1,78,451	47,254	9,793	10,48,508	10,98,751	1,855,742	6,96,187	49,334	6,859	1,98,967	1,501	253	63
Grand Total 1890 of Exports in April.	13,07,279	908	13,07,659	2,04,611	70,784	10,803	16,78,767	11,00,253	7,768,814	6,99,187	92,094	8,867	1,98,938	1,773	4,103	1,770
1889	10,33,582	6,092	10,37,743	2,26,139	63,690	20,414	13,57,945	8,83,066	6,556,800	6,70,048	34,568	4,709	84,702	1,094	6,048	3,023

IMPORTS INTO CALCUTTA.

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of April, 1890.

being Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of April, 1890.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.		
... ..	1,22,800	4,700	907	...	1,51,138	51,037
... ..	6,45,190	...	2,945	553	41,052	43,111
... ..	1,00,50,450	27,776	4,129	9,592	3,07,220	1,69,118
... ..	50,25,570	...	9,071	...	1,53,177	182,515
... ..	2,31,950	5,407	861	...	5,021	5,300
... ..	7,15,165	1,108	845	100	22,130	7,707,814
... ..	1,04,07,595	50,831	18,004	20,974	6,20,083	9,032,202
... ..	1,47,85,143	55,161	20,859	13,023	4,52,858	12,004,119
and Total of Exports in April	.. { 1890 ...					
	.. { 1899 ...					

O. E. BUCKLAND,
Offg. Secretary to the Govt. of Bengal.

Meteorological Report of the Province.

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.														
			AIR PRESSURE.					TEMPERATURE.					HUMIDITY.		CLOUD.		
			Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maxi- mum tempera- ture.	Mean daily mini- mum tempera- ture.	Mean daily tem- perature.	Variation from normal mean.	Mean, 8 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.
DISTRICT.	Representative stations.	Pooree	29.874	29.594	29.712	29.724	—	94.7	76.0	86.4	70.5	84.1	—	87	—	6.1	—
		Goudapore False Point	29.860 29.867	29.584 29.577	29.691 29.710	29.714 29.732	—0.016 —0.019	93.2 93.5	75.4 73.6	87.8 87.4	78.7 77.1	83.3 82.8	—0.1 —0.7	86 84	— —3	4.1 6.9	— —0.2
Orissa.	Cuttack	Cuttack	29.807	29.634	29.653	29.737	—0.004	93.4	74.8	80.0	78.0	84.6	+0.1	80	—2	6.6	0
	Balasore	Balasore	29.833	29.550	29.654	29.743	—0.002	94.4	73.6	86.1	77.6	83.9	+0.8	86	—	4.3	—
SOUTH-WEST BENGAL.	South-West Midnapore and South 24-Pargunnahs	Saugor Island	29.880	29.664	29.737	29.753	+0.003	92.3	75.0	88.7	79.9	84.3	+0.7	83	—2	8.1	+0.6
	Midnapore	Midnapore	29.745	29.480	29.590	29.750	—0.008	103.4†	69.2†	90.3	77.0	83.7	+0.8	83	—	3.8	—
	24-Pargunnahs, Howrah, and Hooghly.	Calcutta	29.800	29.619	29.734	29.756	+0.005	92.5	71.7	87.6	76.9	83.3	—0.4	87	0	7.3	—1.0
	Burdwan	Burdwan	29.836	29.560	29.663	29.764	+0.004	95.6	74.9	90.1	78.5	84.8	+0.3	85	—1	7.6	—0.4
	Bankura	Bankura	29.878	29.333	29.480	29.730	—0.008	90.1	73.1	88.3	77.2	83.3	—0.1	88	—	5.9	—
	West Burdwan Beerbhoom	Ranigunge*	29.681	29.330	29.416	29.730	+0.009	96.8	73.9	89.8	77.7	83.8	+0.7	82	—	6.3	—
	Mooredahabad	Bachampore	29.763	29.601	29.683	29.740	+0.002	92.7	72.3	88.3	78.1	83.3	—0.4	90	+4	7.7	—0.8
	Nuddea	Krishnagore	29.804	29.614	29.710	29.758	+0.014	?	?	?	?	?	?	?	?	7.3	—
	Jessore and Khoolna	Jessore	29.883	29.623	29.731	29.766	—0.002	90.8	75.4	80.4	79.0	84.3	+0.4	90	+3	8.1	—0.3
	Chittagong	Chittagong	29.829	29.611	29.717	29.807	—0.001	89.7	73.7	86.8	77.4	83.1	+0.7	88	0	5.9	—1.7
EAST BENGAL.	Chittagong Hill Tracts	Demagiri	Observations not received.														
	Backergunge	Barrisal	29.791	29.603	29.756	29.768	+0.002	92.8	73.9	87.4†	78.4	83.9†	+1.1†	87	—	6.3	—
	Noakholly	Noakholly	29.894	29.605	29.764	29.806	+0.028	90.5	73.8	85.9	79.9	81.4	—0.2	88	—	1.8	—
	Furzedpore	Furzedpore	29.894	29.650	29.749	29.788	+0.024	90.5	73.9	87.0	79.9	83.5	+1.0	87	—	5.2	—
	Dacca	Dacca	29.890	29.607	29.751	29.774	+0.002	92.1	74.2	88.9	79.3	84.1	+0.3	86	—3	7.6	+0.4
	Tipperah	Cumilla	29.885	29.647	29.762	29.798	+0.016	91.3	73.8	87.8	78.2	83.0	—0.5	86	—	3.7	—
	Mymensingh	Mymensingh	29.863	29.636	29.730	29.789	+0.010	91.2	71.1	86.4	78.6*	81.5*	—0.4	92	—	7.0	—
	Bohara	Bohara	29.838	29.605	29.694	29.757	+0.024	91.3	71.0	87.3	78.8	82.1	—0.4	89	—	6.3	—
	Pubna	Serajpore	29.877	29.619	29.724	29.776	+0.012	89.6	71.7	80.1	78.4	82.3	—0.4	89	—	7.1	—
	Rajshahye	Rampore Beaulah.	29.851	29.597	29.693	29.764	+0.018	91.8	73.6	83.0	78.5	83.3	+1.2	85	—	2.8	—
NORTH BENGAL.	Maldah	Maldah	29.836	29.574	29.679	29.760	+0.076	94.5	70.5	89.6	78.3	84.0	+0.4	87	—	3.0	—
	Dinapore	Dinapore	29.768	29.545	29.652†	29.746†	—0.001	92.6	67.6	87.3*	77.1*	83.2*	—0.7	91	—	7.3	—
	Rungpore	Rungpore	29.820	29.567	29.667	29.793	+0.010	93.8	66.7	87.3	78.6	81.5	—1.2	90	—	3.2	—
	Jalpigore and Cooch Behar.	Jalpigore	29.681	29.378	29.495	29.786	+0.014	92.4	65.6	86.5	74.0	79.8	—1.4	94	—	2.4	—
	Darjeeling Hill Tracts	Darjeeling	29.700	29.476	29.563	—	—0.020	68.6	48.2	63.1	54.3	58.7	—1.4	94	+2	8.3	+0.4
	Farneah and North Bhagulpore.	Farneah	29.794	29.536	29.635	29.763	+0.008	91.7	66.5	87.3	78.1	81.7	—1.5	89	—1	5.6	—0.0
	Moonfarpore	Moonfarpore	29.730	29.480	29.551	29.730†	—	94.3	68.2	88.4	78.8	83.6	—	87	—	4.4	—
	Durbhunga	Durbhunga	29.780	29.494	29.592†	29.780	+0.007	94.4	64.5	88.6	77.5	83.1	—0.5	86	—6	5.1	—0.9
	Chumprun	Motihari	29.709	29.480	29.589	29.708	+0.028	96.3	61.8	86.8	76.5	83.7	—0.2	84	—	5.9	—
	Barun	Chupra*	29.704	29.460	29.585	29.720	—0.003	96.3	60.2	84.2	78.5*	83.9*	+0.5	85	—	3.2	—
SOUTH BENGAL.	Shahabad	Dahree Huxar Arrah	29.651 29.673 29.710	29.361 29.387 29.395†	29.371 29.440 29.536	29.727 29.734 29.738	—0.018 —0.006 +0.003	93.3 95.4 96.4	67.5 67.3 67.7	80.3 88.4 89.6	77.4 78.9 77.0	84.3 82.7 83.3	+0.6 —0.2 —1.0	84 80 85	— — —	5.9 5.3 3.8	— — —
	Gya	Gya	29.630	29.340	29.384	29.735	—0.007	97.0	65.6	90.6	78.1	84.6	0	79	—2	5.9	—2.4
	Patna	Bankipore	29.734	29.466	29.557	29.741	—0.007	94.9	63.3	80.3	78.5	84.0	—0.8	81	—4	5.6	—1.2
	South Bhagulpore and Monghyr.	Bhagulpore	29.746	29.486	29.676	29.789	+0.001	94.3	68.5	88.6	79.9	82.8	—0.3	84	—	6.3	—
	Southal Pargunnahs	Naya Doonka	29.614	29.187	29.233	29.753	+0.011	94.8	71.3	86.6	70.3	83.6	+0.4	84	—	2.4	—
ASSAM.	Hazribagh	Hazribagh	27.676	27.005	27.739	29.761	—0.007	91.0	64.6	84.5	71.7	78.1	—0.2	80	0	6.1	0
	Lohardugga Maunabow	Manchee	27.630	27.750	27.620	29.740	—0.003	89.0	64.0	83.8	70.3	76.8	—0.3	83	—	6.6	—
	Singbhoom	Chyebama	29.717	28.678	28.974	29.742	+0.011	94.4	71.3	86.7	76.6	83.1	—0.1	84	—	6.6	—
	Assam	Silchar Dibrui Silchar	29.681 29.639 29.609	29.378 29.655 29.643	29.405† 29.676 29.701	29.833† 29.705 29.807	+0.015† +0.002 +0.004	94.1 95.7 95.6	67.4 69.8 67.3	87.1 85.6 89.4	75.1 76.0 76.0	81.1 80.0 82.3	—1.7 —1.4 —0.7	83 81 89	+1 0 +1	8.2 7.3 5.8	—0.9 +0.6 +0.7

* Mean of 29 days.

† " " 26 " "

for the month of September 1890.

DISTRICT OBSERVATIONS.											Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.													
Of month.					Since 15th May 1890.								
Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.					
10.15	+5.79	30.8	10.3	54.95	44.16	+9.80	79.7	67.9	Pooree Gopalpore False Point	Pooree	ORISSA.		
9.33	+7.45	17.8	16.8	51.82	44.17	+7.65	78.4	67.8	Cuttack	Cuttack	SOUTH-WEST BENGAL.		
11.10	+7.33	17.9	14.5	50.55	46.49	+4.06	69.4	66.1	Balasore	Balasore			
11.45	+1.87	15.7	15.9	47.28	53.28	-6.00	75.7	74.8	Saugor Island	South-West Midnapore and South St. Pergunnahs.			
8.09	+1.89	15.6	13.0	45.34	46.34	-1.00	73.9	64.8	Midnapore	Midnapore	SOUTH-WEST BENGAL.		
8.82	+1.06	14.1	16.0	46.86	46.39	+0.47	74.1	70.7	Calcutta	St. Pergunnahs, Howrah, and Hooghly.			
7.07	+4.31	14.0	12.5	45.16	41.85	+3.31	74.0	67.8	Burdwan	Burdwan			
6.17	+0.89	13.5	14.0	46.66	48.01	-1.35	70.1	72.3	Bankoora	Bankoora	SOUTH-WEST BENGAL.		
9.88	+0.89	14.3	15.5	45.51	47.99	+7.32	79.0	55.3	Ranigunge	West Burdwan and Beerbhoom.			
10.40	-0.55	14.3	14.7	52.79	45.44	+7.35	73.6	70.5	Berhampore	Moorsheadabad			
8.59	+1.50	12.9	13.5	46.25	44.09	+2.16	73.2	69.6	Krishnagore	Nudda	SOUTH-WEST BENGAL.		
8.94	-3.00	11.9	14.1	45.82	47.80	-1.98	78.8	75.2	Jessore	Jessore and Khoolna			
14.23	-2.92	17.0	17.8	113.80	103.74	+10.06	94.0	94.3	Chittagong	Chittagong			
13.55	-2.14	12.5	20.1	68.06	70.51	-2.45	89.0	97.3	Dumagri	Chittagong Hill Tracts	EAST BENGAL.		
12.12	-5.26	12.3	17.9	61.08	68.80	-7.72	90.1	93.8	Barrisal	Backergunge			
16.76	-3.71	15.0	18.7	69.06	98.79	-29.73	97.0	94.4	Noakholly	Noakholly			
9.08	-4.95	10.3	13.8	37.89	49.90	-12.01	79.6	76.8	Farredpore	Farredpore	EAST BENGAL.		
10.17	-6.00	9.3	14.6	53.07	54.08	-1.01	85.3	81.1	Dacca	Dacca			
11.24	-3.70	10.8	16.3	53.85	61.84	-7.99	79.9	65.3	Commillah	Tipporah			
13.04	-3.66	12.3	15.9	66.74	63.69	+3.05	83.0	80.7	Mymensingh	Mymensingh	NORTH BENGAL.		
10.41	+0.09	14.5	13.2	64.75	63.16	+1.59	84.6	69.5	Bogra	Bogra			
10.48	+1.97	14.5	14.3	66.70	47.94	+18.76	87.5	71.8	Serajunge	Pabna			
11.50	+3.80	13.0	13.8	66.00	48.89	+17.11	83.9	68.5	Rampore Beau-leah.	Rajshahye	NORTH BENGAL.		
11.05	+1.90	11.5	14.6	54.51	49.71	+4.80	81.5	75.4	Maldah	Maldah			
11.22	+6.10	9.4	13.8	70.23	52.60	+17.63	70.6	71.7	Dinapore	Dinapore			
13.44	+13.21	17.0	13.8	68.56	68.20	+0.36	93.8	69.4	Rungpore	Rungpore	NORTH BENGAL.		
21.04	+3.64	16.4	16.6	139.04	104.34	+34.70	104.4	69.0	Julpigore	Julpigore and Oooch Behar.			
15.44	+3.74	21.5	19.5	121.13	113.53	+7.60	116.6	102.0	Darjeeling	Darjeeling Hill Tracts.			
12.39	+1.70	8.4	13.9	74.44	54.38	+20.06	72.2	64.1	Purneah	Purneah and North Bhagulpore.	NORTH BENGAL.		
8.99	-1.81	10.0	10.6	50.78	39.27	+11.51	69.7	51.0	Mozufferpore	Mozufferpore			
9.85	-3.81	8.0	10.7	55.85	40.96	+14.89	68.2	51.3	Durbhunga	Durbhunga			
9.80	-0.23	9.0	9.6	62.75	43.25	+19.50	63.0	49.0	Motibari	Chumpan	NORTH BENGAL.		
7.45	+0.73	9.3	10.2	52.13	37.45	+14.68	61.4	51.2	Chupra	Saran			
7.07	+0.38	10.6	11.9	48.23	35.76	+12.47	69.6	54.9	Dehree Buxar Arrah	Shahabad			
6.79	-1.84	9.8	10.1	56.81	37.74	+19.07	67.7	51.1	Gya	Gya	SOUTH BENGAL.		
7.06	+0.53	9.6	12.5	46.77	37.16	+9.61	64.2	55.5	Hankipore	Panna			
7.91	-2.06	10.4	12.0	49.28	39.14	+10.14	69.8	59.5	Bhagulpore	South Bhagulpore and Monghyr.			
10.21	-3.03	11.5	13.9	53.05	46.35	+6.70	70.7	68.2	Naya Dooaka	Sonthal Pergunnahs	SOUTH BENGAL.		
9.97	-1.23	12.3	15.2	47.69	40.97	+6.72	73.2	72.6	Hasaribagh	Hasaribagh			
8.90	-3.54	13.0	15.7	45.36	44.23	+1.13	73.5	75.0	Ranchoe	Lohardugga			
7.09	-1.70	14.5	14.6	35.22	42.70	-7.48	75.5	74.8	Chyobassa	Singhoom	SOUTH BENGAL.		
6.82	-1.14	17.0	16.0	32.21	47.20	-15.00	76.0	61.2	Sibagar	Assam			
									Dubri	Assam			
									Belour	Assam	ASSAM.		

Table of Rainfall recorded at Sta

Metereological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
ORISSA	Pooree	Pooree	...	0'03	0'23	0'06	...	0'30	0'02	0'04	...	0'12	...	0'08	0'09	0'10	...	0'05	0'05
		Khurdah	3'03	1'53	1'53	0'33	0'50	0'23	0'05	0'04	...	0'08	0'30	0'15	0'07	0'03	...	0'13
		Bampur	...	0'46	0'31	...	0'08	1'06	0'80	0'20	...	0'05	0'04	...	0'08	1'24	0'41	3'04	...	1'30	1'40
		False Point	0'03	0'01	0'08	0'28	0'08	0'58	0'10	0'33
		Gop	0'11	0'33	0'20	0'10
	Cuttack	Salpara	1'45	0'25	...	0'35	0'28
		Pipli	0'23	0'20	1'33	0'14	0'14	1'14	0'53	0'27	0'37	0'12
		Jamteingapore	1'75	0'05	2'10	...	0'40	0'03	0'05	0'18	0'40	...	0'15	...	0'17
		Banki	0'40	0'35	...	0'45	0'13	0'10	0'11	...	0'87	0'24	0'47	0'03	0'14
		Cuttack	0'40	0'10	0'34	0'87	0'07	0'00	1'08	0'25	1'36	0'31	0'22
Balasore	Kendrapara	...	...	...	0'81	...	0'02	...	...	...	...	0'34	0'87	0'07	...	...	...	...	...	...
	Jajpur	...	...	...	0'33	...	0'00	...	0'23	...	...	0'34	...	...	...	1'01	0'06	0'21	0'00	0'10
	Dharmasala	...	...	...	...	0'60	...	0'20	...	...	...	0'72	0'15	0'15	0'10	...	0'30	0'27	0'30	0'15
	Salipore	...	...	...	...	...	...	...	...	...	...	...	...	...	0'00	0'54	1'14	...	0'17	0'41
	Chandball	...	...	...	...	...	...	...	...	...	...	0'80	0'60	0'08	0'44	1'30	0'17	1'05	0'33	0'25
South-West Bengal.	Bhuddruck	0'15	...	3'40	1'20	...	...	...	...	...	...	0'72	...	...	...	0'45	2'08	0'41	0'00	0'10
	Norah	...	...	0'10	...	...	...	...	...	...	0'12	...	...	...	...	0'05	1'19	0'25	0'73	0'01
	Balasore	...	...	...	...	...	...	0'21	...	...	...	...	...	...	...	...	...	...	...	...
	Jellapore	...	...	0'17	...	...	...	...	...	...	...	...	...	...	...	...	1'01	0'05	0'07	0'12
	Baripodah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'55	1'32	0'21	0'01	0'15
Midnapore	Contal	...	...	...	0'07	...	...	...	...	...	...	...	...	...	...	0'81	0'52	0'53	0'02	0'74
	Saugor Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'26	0'32	0'24	0'11	0'20
	Tumlook	...	...	...	...	...	...	...	...	...	...	...	...	0'50	...	0'20	0'10	0'40	0'10	0'20
	Midnapore	0'57	...	...	...	...	0'40	...	...	...	...	...	...	...	...	...	...	0'32	0'15	0'23
	Ghatol	...	...	...	...	...	...	0'17	...	...	...	...	...	...	...	0'43	...	0'54	0'07	0'08
40-Perqupungah	Kukurahaty	...	...	...	0'36	...	...	...	...	...	...	...	...	...	...	0'26	0'32	0'08	...	0'34
	Garbeta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'09	...	0'47	...	0'18
	Diamond Har- bour	...	...	...	0'04	...	...	...	...	...	...	...	...	...	...	0'70	1'45	0'20	...	0'10
	Canning Town	...	...	...	0'45	...	...	...	...	...	...	0'31	0'16	...	...	0'22	0'45	0'72	0'10	0'22
	Alipore Jail	...	...	...	...	...	...	1'55	...	...	...	...	...	...	...	0'10	0'51	0'62	0'08	0'48
Howrah	Barrackpore	...	...	0'38	...	...	...	...	...	...	...	...	...	...	...	...	0'27	...	...	0'17
	Dum-Dum	0'00	...	0'09	0'53	...	...	1'11	0'44	...	...	...	...	...	...	...	0'26	0'23	0'48	...
	Barnet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Buccerhat	0'37	...	1'28	...	...	...	...	...	...	...	...	...	...	...	1'10	0'05	0'09	...	...
	Howrah	...	...	...	...	...	...	...	0'07	0'02	...	...	...	...	...	...	0'20	0'18	0'16	0'01
Hooghly	Mohesreka (Ooloberiah)	...	...	...	...	...	...	0'60	...	...	...	...	...	0'14	...	...	0'14	0'31	0'16	0'01
	Serampore	...	...	0'51	...	...	...	...	...	...	...	...	...	...	...	0'05	0'18	0'18	0'40	...
	Hooghly	...	...	1'08	0'07	0'03	...	...	...	...	...	...	...	...	...	0'10	...	0'14	0'31	...
	Jehanabad	...	...	...	...	...	...	0'23	...	...	...	...	...	...	...	0'16	...	0'12	0'30	0'11
	
Hurdwan	Culina	...	...	3'15	...	...	...	0'83	0'02	...	...	...	...	...	...	...	0'53	...	...	0'43
	Hurdwan	...	...	...	0'77	...	...	3'40	...	...	...	...	...	...	...	...	0'05	...	0'00	1'20
	Cutwa	0'40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'37	...	...	...
	Ranagunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'57	0'08	0'40	...
	Manbur	...	...	...	0'61	...	...	...	...	...	...	...	...	...	...	...	...	0'24	...	...
Bankoora	Bankoora	...	...	...	...	1'00	...	...	...	...	...	0'30	...	...	...	0'60	...	0'46	0'43	0'31
	Bishenpore	...	...	...	0'12	...	...	...	...	...	...	...	...	...	...	...	...	0'13	0'08	...
	Maliara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'00	0'08	0'30	0'08
	Khatra	...	...	...	...	0'25	...	...	...	...	...	...	...	...	...	...	0'07	...	1'40	0'30
	Indas	...	...	...	...	0'30	...	...	0'07	...	...	...	...	...	...	...	0'80	...	...	0'37
Meerbhoom	Kotalpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'32	0'08
	Anda	...	...	...	...	0'15	...	...	...	...	...	...	...	...	...	...	...	...	3'13	...
	Gangajalhati	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'08	0'11
	Raipore	0'48	...	0'19	...	...	...	...	...	...	...	...	...	...	...	...	0'05	...	0'05	0'37
	Banamukhi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'35
Naddeo	Bh. Soory	...	...	...	0'21	0'08	0'02	...	...	0'03	...	...	...	0'25	...	...	...	...	0'07	0'16
	Hetampore	...	...	...	0'30	...	0'20	...	3'05	...	...	...	...	0'12	0'05	...	...	0'12	...	...
	Rampore Haul	...	...	...	...	...	0'17	0'10	...	...	...	...	...	...	...	...	...	0'45	0'53	...
	Holpur	...	...	...	...	0'36	0'08	...	...	0'06	0'19	...	...	...	...	...	...	...	...	0'04
	Murari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'05	...	...
Ranaghat	Ranaghat	...	...	...	1'04	...	1'10	1'06	...	...	...	...	...	...	0'19	...	...	0'06	0'54	0'05
	Kishnaghat	...	...	...	0'08	1'30	...	0'02	0'07	...	...	...	...	...	...	0'28	...	0'07	0'70	...
	Choodnaga	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'00	0'10	...	0'35	...
	Meherpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'35	...
	Kooshtea	2'23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'03	0'23	...	0'05
Khoolna	Matkhira	...	...	...	1'21	0'02	...	...	...	...	...	...	...	...	...	...	0'28	0'02	0'34	0'21
	Bagrhat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'50	0'38	0'10
	Khoolna	...	...	...	0'17	...	...	...	...	...	...	...	...	...	...	...	1'13	0'35	0'15	0'27
	Nakipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampal	...	...	...	0'21	...	...	...	...	...	...	...	...	...	...	...	...	1'20	0'19	0'20
Jessore	Narail	0'08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jessore	...	0'18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'07
	Jhaidah	0'45	...	...	...	...	...	...	...	0'07	...	...	...	...	...	...	...	...	...	0'04
	Magorah	0'02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bongong	...	...	1'48	...	1'21	0'15	...	...	...	...	...	...	...	...	...	0'25	0'05	0'36	0'17
Mourshadabad	Kandi	...	...	...	...	...	...	0'24	...	...	...	...	...	...	...	...	...	...	0'17	...
	Berhampore	...	...	0'30	...	...	...	...	...	...	...	0'07	...	...	...	...	...	...	0'07	0'10
	Lalbari	...	...	0'04	0'28	...	0'53	...	...	...	...	0'15	...	...	...	...	...	...	0'25	0'42
	Azimungo	0'23	0'08	1'12	...	...	1'40	...	...	...	...	...	...	...	...	...	...	...	0'00	...
	Jungipore	...	...	0'25	0'15	0'03	...	...	...	...	...	...	...	...	...	...	...	...	...	0'00
Chittagong Hill Tracts	Jakola	...	...	0'54	...	0'40	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jingungo	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Akhrajun	...	...	...	...	...	...								

Bengal in September 1890.

22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Highest rainfall during the month.	Total rainfall from 1st January up to 30th September 1890.	Average rainfall from 1st January up to 30th September.	Station.	District.	Meteorological division.
0.00	0.00	0.18	0.28	0.22	...	0.71	0.11	...	20	17.5	16.30	0.84	6.18	57.10	45.80	Pooree	Pooree	ORISSA.
0.10	0.08	1.75	1.54	0.05	...	...	...	...	21	18.4	13.23	10.30	2.78	51.18	50.39	Khurda.		
1.02	0.08	1.40	0.78	0.08	...	1.75	0.56	...	22	18.3	14.62	9.77	3.04	54.16	44.47	Hanpur.		
1.46	0.49	3.19	2.05	1.69	0.47	0.27	1.25	0.03	23	16.6	15.71	11.14	3.10	52.46	56.25	False Point, Gop.		
0.12	3.50	3.50	2.11	...	2.55	2.11	0.12	0.24	15	?	15.94	?	3.50	?	?	Salpara.		
0.50	0.50	0.73	0.05	0.20	...	0.14	0.13	...	16	?	7.50	?	1.45	31.63	?	Pipli.		
0.57	2.67	1.13	0.90	...	1.45	0.13	...	0.31	19	?	11.74	?	2.57	?	?			
0.70	1.00	4.30	1.60	0.60	...	1.40	1.41	0.12	24	11.9	17.33	6.61	4.20	55.39	45.75	Jagatsingapore	Outtack.	
0.54	0.74	2.20	1.12	0.44	0.03	...	...	...	14	21.4	13.99	10.54	3.65	54.61	40.84	Hanki.		
1.40	2.10	3.09	4.53	2.40	...	...	...	0.13	17	18.6	21.02	9.70	4.53	74.67	51.04	Outtack.		
0.08	0.11	4.05	1.72	1.44	...	1.17	...	0.03	19	13.4	16.55	9.14	4.05	45.90	40.73	Kendrapara.		
0.00	1.70	1.50	2.59	0.75	0.64	...	0.79	...	17	12.8	15.01	9.95	2.59	48.65	53.42	Jajpore.		
2.90	2.75	1.00	1.35	...	...	...	...	0.30	10	?	12.10	?	2.90	50.23	?	Dharmala.		
1.47	2.00	1.72	1.63	...	...	1.25	...	...	11	?	11.85	?	2.00	45.45	?	Salipore.		
0.10	0.32	2.45	3.10	0.50	1.35	...	...	...	17	14.1	13.74	11.04	3.10	44.98	50.90	Chandhall.	Balasore.	
0.50	0.90	1.00	1.70	0.14	0.45	0.03	...	0.15	...	14.2	14.47	10.50	2.90	50.54	52.74	Bhuddruck.		
1.40	3.40	1.55	2.30	0.15	0.45	0.50	4.00	0.07	20	13.6	19.07	11.13	4.00	57.09	50.06	Sorali.		
1.34	2.44	3.54	4.82	4.10	0.27	2.20	0.02	0.04	18	16.1	22.89	12.43	4.82	61.74	58.94	Balasore.		
2.10	1.50	4.07	3.57	3.20	0.69	2.00	...	0.16	15	12.0	22.05	10.48	4.07	59.37	55.42	Jilasore.		
0.66	2.05	7.72	1.56	1.90	0.05	0.10	0.25	0.36	18	16.3	18.30	11.77	7.72	57.20	55.38	Baripodah.		
1.28	1.19	2.90	3.41	2.13	0.57	0.79	0.66	...	17	14.3	15.11	11.74	3.13	48.25	59.48	Contal	Midnapore	SOUTH-WEST BENGAL.
0.10	1.67	2.90	0.84	3.45	0.50	0.16	0.59	...	14	16.8	12.52	12.56	3.45	46.88	64.05	Saugor Island		
0.10	0.50	1.80	0.70	2.10	0.70	3.30	0.80	...	17	9.2	12.20	8.33	3.35	52.20	63.81	Tumlook.		
0.40	0.32	1.86	1.00	0.31	0.62	0.12	0.60	0.12	18	15.0	7.80	8.19	1.00	44.44	54.06	Midnapore.		
1.04	1.31	1.10	0.35	0.60	2.05	0.07	1.32	0.19	15	14.7	9.05	8.98	2.05	45.04	58.61	Ghatal.		
0.61	1.14	2.20	1.44	0.40	1.66	1.21	2.21	...	10	?	13.71	?	3.26	41.61	?	Kukurahaty.		
...	0.44	1.44	0.07	1.33	0.97	...	2.25	0.33	11	?	9.42	9.04	3.25	47.84	52.91	Garbata.		
1.22	0.72	1.32	0.06	2.54	0.91	1.18	1.32	0.05	16	16.7	12.34	11.91	2.04	59.74	60.96	Diamond Har.	24-Pargannahs.	
0.74	0.84	0.45	...	0.75	1.27	...	0.70	0.01	18	?	7.18	?	1.27	53.75	?	Canning Town.		
0.60	0.67	0.10	0.01	0.18	4.60	0.51	2.70	0.27	17	14.5	12.42	9.00	4.60	55.14	56.25	Alipore Jail.		
0.90	0.62	...	0.05	...	2.7	2.00	2.40	0.08	10	14.3	9.13	7.44	2.67	45.40	51.81	Barrackpore.		
0.45	0.99	0.12	...	0.26	3.29	1.13	2.30	...	18	10.4	11.77	8.79	3.29	40.00	55.19	Dum-Dum.		
0.65	0.22	0.16	0.22	0.17	2.47	1.16	0.63	...	15	13.7	9.69	9.02	2.47	45.91	53.70	Narasol.		
0.12	...	0.80	...	0.19	0.42	...	0.29	...	11	14.5	8.31	8.70	1.25	54.78	57.62	Buxorhat.		
0.46	1.21	0.08	...	0.03	2.90	0.02	3.41	0.22	16	14.7	9.08	9.10	3.21	49.16	54.65	Howrah.	Howrah.	
0.11	0.33	0.15	0.03	1.07	1.61	2.44	1.77	0.03	16	15.1	10.01	8.43	2.44	55.21	56.98	Mohesraha (Ooloberia).		
0.71	0.90	0.06	...	0.25	1.20	4.05	1.06	0.16	14	17.3	10.63	7.90	4.05	44.63	55.12	Serampore	Hooghly.	
0.98	0.40	0.53	0.06	0.09	1.23	3.54	1.95	0.08	16	15.5	12.52	7.43	3.54	47.78	56.10	Hoochly.		
0.03	0.24	0.21	0.01	0.10	2.04	0.03	0.86	0.04	14	14.6	4.38	9.62	2.04	51.39	57.93	Jehanabad.		
0.41	...	0.66	...	0.63	0.62	2.33	1.10	0.03	13	10.6	10.91	6.54	3.13	53.55	48.32	Cuina	Bardwan.	
1.32	0.40	0.34	0.10	0.31	1.40	0.06	1.56	0.03	10	16.4	11.00	8.26	3.40	63.83	52.05	Burdwan.		
1.90	0.87	0.44	1.30	2.50	0.35	4.10	0.07	...	13	13.6	14.04	8.20	4.10	59.78	51.34	Cutwa.		
1.08	2.13	0.53	0.05	0.22	1.43	0.36	0.34	...	15	14.9	8.03	7.14	3.13	53.36	50.09	Ransegunge.		
0.07	1.50	0.26	0.11	0.05	0.48	0.36	1.00	...	10	?	4.89	?	4.50	46.31	?	Manikur.		
1.71	1.08	1.22	0.08	0.40	1.48	0.04	1.23	...	15	16.0	11.28	8.56	1.81	55.25	51.37	Bankoora	Bankoora.	
0.51	0.19	1.80	0.24	1.09	0.76	0.06	2.34	0.30	13	14.4	9.90	9.17	3.34	48.45	54.97	Bishnupara.		
0.20	3.37	0.23	0.22	0.11	1.92	0.19	0.10	0.01	13	11.9	7.63	6.02	3.37	51.64	49.71	Malara.		
0.72	1.10	9.85	0.50	0.51	1.12	0.20	0.20	...	13	13.8	7.06	9.43	1.10	35.04	54.71	Kuatra.		
0.90	0.45	0.41	0.45	0.04	1.46	...	3.22	0.10	12	?	6.89	?	2.22	60.21	?	Indra.		
0.03	0.38	1.00	0.12	0.73	0.55	...	3.05	0.15	12	?	6.61	?	2.05	63.83	?	Kotalpara.		
...	1.00	2.05	1.00	0.80	1.24	1.40	...	...	0	?	11.18	?	3.13	49.81	?	Anda.		
2.38	1.09	...	0.72	1.57	0.12	0.44	...	...	10	?	10.40	?	2.08	61.53	?	Gangajalghati.		
0.82	1.35	0.43	0.12	2.05	0.72	0.57	0.56	...	16	?	9.15	8.92	2.05	48.93	53.90	Rampore.		
0.23	3.29	0.73	0.35	0.62	0.46	0.74	1.37	...	11	?	9.00	?	3.29	49.85	?	Bonamukhi.		
0.06	1.19	1.88	0.60	0.24	2.29	0.40	0.20	1.54	16	17.4	8.57	9.77	2.29	57.44	51.97	Bh. Soory	Boerbhoom.	
2.99	0.84	0.10	0.32	2.23	0.43	1.07	0.17	...	15	14.5	11.58	10.32	2.05	63.86	55.05	Bhampur.		
0.92	1.15	0.33	0.50	0.69	2.44	1.18	2.70	0.18	13	15.2	12.89	11.22	2.70	63.30	58.33	Rampore Hant.		
1.25	2.33	0.46	...	0.29	2.92	0.26	1.80	...	12	?	10.25	?	2.32	58.76	?	Bolpur.		
2.35	...	1.10	0.45	1.60	0.85	...	...	...	6	?	7.00	?	2.35	62.95	?	Murari.		
0.13	0.17	0.49	...	0.74	1.13	1.95	1.08	0.10	14	12.1	11.68	9.95	1.08	50.71	51.01	Ranghat	Nudda.	
0.05	2.36	0.59	...	0.14	2.95	2.31	0.05	...	15	14.1	12.13	7.94	2.95	55.49	50.57	Kishunghar.		
...	0.66	0.24	0.12	0.07	...	3.40	2.25	0.08	23	13.7	8.08	9.44	3.40	42.74	56.37	Choodanra.		
0.40	2.46	...	0.89	0.07	0.40	...	3.68	...	7	13.2	9.00	7.92	3.58	48.98	52.30	Mohorpara.		
...	1.65	0.08	0.09	0.14	0.20	2.15	2.13	0.04	14	14.6	10.16	9.00	3.22	51.42	56.13	Koushtea.		
0.01	0.14	0.69	0.09	0.45	2.61	...	0.06	0.02	16	16.4	8.82	8.71	2.61	56.93	50.30	Satkira	Khoolna.	
0.00	0.14	1.72	0.60	0.88	0.60	...	...	...	11	13.4	6.60	9.70	1.74	60.57	63.93	Banrhat.		
...	1.05	0.37	...	0.21	0.45	...	...	...	10	15.4	4.86	9.58	1.13	60.01	60.02	Khoolna.		
...	0.08	0.67	0.54	2.44	1.10	...	...	...	11	?	9.03	?	2.44	61.05	?	Nakipur.		
...	0.43	2.63	0.61	1.02	0.87	...	...	...	12	?	6.38	?	2.83	67.28	?	Rampal.		
0.09	0.53	0.07	0.03	0.13	0.15	...	0.84	...	11	13.4	1.93	7.08	0.04	47.90	51.04	Narali	Jessore.	
0.00	2.30	0.18	...	0.71	0.52	0.05	1.09	0.11	13	16.1	6.00	9.20	2.30	58.92	61.10	Jessore.		
1.52	0.26	...	...	0.09	...	1.02	2.14	...	10	13.2	7.13	8.71	3.14	59.14	60.92	Jhaidah.		
0.28	0.17	...	...	0.19	0.03	0.57	...	...	10	14.0	2.46	7.20	0.95	46.50	55.32	Angorah.		
0.31	...	0.45	...	0.35	0.95	1.10	1.00	...	13	10.8	7.85	8.34	1.45	42.13	53.73	Bougong.		
2.46	1.05	1.03	0.17	0.82	0.79	1.73	4.35	0.20	11	14.0	12.07	8.87	4.35	62.48	50.90	Kandi	Moorehadabad.	
0.00	0.00	0.52	0.13	0.34	0.04	0.74	2.37	0.03	15	15.1	8.52	9.61	2.37	53.59	49.74	Berhampore.		
0.20	1.35	0.08	0.45	0.22	0.67</													

Table of Rainfall recorded at Stat

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
SOUTH BENGAL -continued-	Bachergunge...	Patuakhali...	...	...	0'13	...	...	...	0'25	...	...	...	1'03	...	...	...	0'48	0'15	...	1'00	0'20
		Perozepore...	...	...	...	...	...	...	...	...	...	0'27	0'17	...	...	...	0'42	0'30	0'15	...	0'00
		Burrisal...	...	0'31	...	0'03	0'13	0'24	0'29	0'15	0'05	0'50
		Bhola...	0'12	0'40	0'06	...
	Noakholly ...	Gournaddi...	0'15	0'45	0'00	0'35	...	1'45
		Bomphal...	0'29	0'57	0'48	0'05	0'45	0'00	0'35	...	1'45
		Noakholly...	...	0'12	0'11	0'02	0'02	...	3'09	0'08	0'02	...	...	0'15	...	0'16	0'47	...	...	0'54	0'05
		Fenny...	...	0'15	...	0'02	...	...	3'40	0'10	...	0'00	...	0'32	0'17	0'54	0'10	...	...	0'36	...
	Furreedpore...	Harishpore...	...	4'90	3'20	2'30	...	0'30	1'30	0'30	1'10	1'75	0'15	0'30	...	0'80	0'35	...	...	0'35	0'10
		Ramganj...	1'50	...	...	...	...	...	...	...	...	...	0'30	...	...	0'10	...	...	...	...	...
	Dacca ...	Madaripore...	0'20	...	...	...	...	...	...	0'27	...	...	...	...	...	...	...	...	...	0'18	...
		Furreedpore...	...	...	...	...	...	...	...	...	0'25	0'02	...	...	0'15	1'02	0'23	...	0'03	...	...
	Munshigunge...	Goalundo...	...	...	...	...	...	...	...	...	...	...	0'31	...	...	...	1'11	1'24	0'31	...	...
		Dacca...	1'30	...	...	...	...	...	...	0'07	...	...	...	...	...	...	0'60	0'10	0'11	...	...
		Narainiunge...	0'16	...	...	...	...	...	...	...	...	0'04	...	0'36	...	...	0'28	0'50	...	...	0'20
		Manickiunge...	...	...	0'29	...	...	...	...	0'04	...	...	0'11	...	0'07	0'16	0'24	0'36	...	...	...
	Hill Tipperah...	Joydebore...	0'05	0'02	...	...	...	0'05	1'30	1'40	...	0'40	0'35	...	...	0'34	1'03	0'01	...	...	...
		Agartola...	0'29	...	...	...	...	0'10	...	...	...	...	1'32	...	1'55	...	0'43	0'28	0'05	...	0'40
	Tipperah ...	Comilla...	0'19	...	...	0'03	...	...	0'10	...	...	...	0'35	...	...	0'80	0'17	...	...	0'09	...
		Chandpore...	...	...	...	...	...	...	...	0'30	...	...	...	...	...	1'10	...	0'75	...	...	...
		Brahmunberia...	0'00	...	...	...	...	...	...	...	0'00	...	...	0'34	...	...	0'05	1'30	0'03	...	...
		Ranchandra-pore...	0'07	0'04	...	...	...	...	...	...	...	...	...	0'78	0'08	0'13	2'05	0'25	...	0'08	0'18
	Mymensingh...	Nasirnagar...	...	...	...	...	...	...	...	...	...	...	...	0'25	...	...	1'30	...	...	...	...
		Daudkandi...	0'75	...	...	...	...	...	...	...	...	...	0'07	...	...	0'30	0'20	...	...	...	...
		Kasba...	...	...	...	...	...	...	...	...	...	...	...	...	1'25	...	...	...	...	...	...
		Laksham...	0'73	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NORTH BENGAL	Kishoregunge...	Atia (Fengail)...	0'70	...	0'43	...	0'07	0'43	...	0'33	...	...	0'54	0'34	...	...	3'05	...	...	...	...
		Mymensingh...	0'03	1'03	0'23	0'09	0'47	...	0'03	0'12	0'43	...	0'10	0'02	3'74	0'02	0'03	0'39	...	...	...
		Jamulpore...	1'23	2'05	...	...	0'19	0'15	0'37	...	0'13	...	...	...	...	...	0'13	0'09	...	...	...
		Netrokona...	0'84	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bogra...	Subornakhali...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Juragapore...	...	0'13	...	0'50	...	0'70	...	...	...	...	2'10	1'35	0'23	...	0'30	...	1'50	...	...
		Sherpore Town...	0'57	1'29	...	...	...	0'05	...	...	...	...	0'30	0'28	...	0'41	...	...	...	...	...
		Dumanganj...	...	...	...	...	...	...	...	...	...	...	...	0'47	...	...	...	...	...	...	...
	Pubna ...	Pubna...	0'18	...	...	...	...	...	...	...	...	0'14	...	...	...	...	0'74	0'12	0'33	...	...
		Sherpore...	...	...	...	...	...	...	...	0'25	0'05	0'55	0'27	0'38	...	0'37	...	0'06	0'08	...	...
		Nowkhilla...	0'44	2'43	...	...	0'33	...	1'27	...	0'42	0'49	2'40	...	0'11	0'15	...	...	...	...	...
		Bogra...	0'27	1'25	0'04	...	...	...	0'08	0'05	0'12	0'05	...	0'18	1'40	...	0'04	...	...	...	...
	Rajshahye ...	Panchbibli...	0'45	...	...	...	0'13	...	...	...	1'09	...	0'71	...	0'22	...	...	0'35	0'23	...	...
		Beaulah...	...	0'08	0'17	0'34	...	...	...	...	...	...	0'36	...	0'22	...	...	0'19	0'14	...	...
		Nattore...	...	0'70	...	...	...	...	...	...	...	...	2'10	0'16	0'15	...	0'05	...	0'05	...	...
		Nagaoon...	0'35	0'55	...	...	...	...	...	0'03	...	...	0'10	0'08	0'10	...	...	0'18	0'18	...	...
	Maldah ...	Lalpara...	...	1'11	...	...	...	...	...	...	...	0'37	0'16	...	...	...	...	0'35	...	...	...
		Manda...	0'20	...	...	...	0'20	...	0'30	...	...	0'10	...	...	...	...	...	0'10	...	...	...
		Maldah...	...	...	...	...	...	...	...	0'07	0'08	1'52	0'04	...	...	...	0'30	0'22	...	...	...
		Chanchal...	...	...	...	...	0'04	...	...	0'35	...	2'00	0'47	...	...	...	...	0'22	0'05	...	...
	Dinapore ...	Gujol...	...	...	...	...	...	...	...	...	...	...	3'00	0'20	...	...	...	1'35	0'18	...	...
		Sibganj...	...	...	...	...	...	...	...	0'05	...	0'48	...	...	...	...	...	0'25	...	...	...
		Mohadebore...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'18	0'29	0'31	...	...	0'04
		Churamon...	...	...	...	...	...	...	...	...	...	0'33	3'73	0'12	...	...	0'07	1'01	...	...	...
	Rungpore ...	Raigunge...	...	...	...	...	0'25	...	...	...	...	...	...	...	...	...	...	0'25	0'25	...	...
		Dinapore...	...	0'26	...	...	0'45	0'03	...	...	...	...	1'13	0'15	0'30	...	0'25	0'12	...	...	0'05
		Haloorkhat...	...	...	...	...	0'02	...	...	...	...	...	1'76	...	1'21	1'16	0'09	0'02	...	...	...
		Thakurgaon...	...	0'35	...	0'34	1'27	1'30	...	...	0'75	0'71	...	...	...	...	1'45	0'11	...	...	...
	Rangpore ...	Bhawanigunge (Gyabanda)...	1'30	0'23	0'52	...	0'52	...	...	...	...	...	0'20	0'33	0'41	...	...	0'30	...	...	...
		Rungpore...	0'02	0'32	0'14	0'31	1'35	0'01	...	...	...	0'10	0'52	0'13	0'46	...	...	1'57	0'04	...	...
		Kurigram...	0'09	0'19	0'21	3'50	2'30	...	0'13	...	...	1'75	0'03	...	1'26	...	...	0'13	...	...	...
		Bugdigra...	0'71	0'33	...	0'68	2'25	0'15	...	...	...	3'01	0'04	0'57	0'06	0'30	...	0'12	0'25	...	...
	Julpigore ...	(Niphama)...	0'00	...	...	0'04	1'15	0'10	...	...	...	...	1'35	...	0'47	...	...	0'38	...	...	...
		Ulipore...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Julpigore...	0'31	1'34	2'41	0'07	0'24	0'01	0'06	...	...	...	3'54	0'32	1'59	1'30	...	0'13	...	...	...
		Alipore Doar...	2'41	3'51	3'00	1'35	0'55	...	...	...	...	...	2'31	...	0'44	...	...	0'23	...	...	...
	Cooch Behar...	Palaulia...	2'05	4'78	3'15	0'43	...	...	0'51	...	...	...	1'44	...	0'57	...	...	0'08	...	...	...
		Debiganj...	0'33	0'60	0'12	0'34	0'21	...	0'12	0'34	1'05	0'75	...	1'12	...	0'73	0'13	0'55	...	...	...
		Bhagatpore (Nagrakatta)...	3'01	2'41	2'35	0'75	...	0'33	0'58	...	0'07	3'05	1'08	3'25	...	...	0'43	0'31	...	...	...
		Dinhatia...	0'76	0'00	1'71	7'03	0'51	1'53	...	...	0'09	1'02	1'11	0'37	0'03	...	0'12	0'05	...	...	...
	North Bhagal-pore.	Cooch Behar...	5'20	2'09	1'00	1'30	1'00	0'10	...	...	3'34	2'04	1'36	0'05	0'20	...	0'28	...	...	...	...
		Mickilunge...	2'00	0'52	0'55	0'38	0'05	...	0'64	...	...	2'07	0'13	0'53	...	...	...	0'79	...	...	...
		Matabhanga...	3'20	1'02	0'55	1'09	0'13	0'76	0'67	0'03	...	1'53	1'32	3'05	...	0'06	0'08	0'10	...	...	...
		Buxa...	1'77	3'01	3'28	3'24	0'05	1'20	0'34	0'03	0'30	1'27	1'00	1'08	0'01	0'43	0'52	0'07	...	...	...
	Darjeeling Hill...	Silakuri...	1'33	0'33	3'37	1'04	0'05	...	...	...	...	...	0'00	...	...	...	...	...	...	...	...
		Darjeeling...	0'33	0'08	0'74	0'01	0'35	0'05	0'71	0'01	0'13	0'78	0'28	0'15	1'35	0'05	0'04	0'30	...	...	...
		Kalimpang...	2'03	...	0'38	0'06	0'30	0'04	0'11	...	0'00	0'06	0'28	0'00	0'08	...	0'08	0'57	...	...	...
		Kuraung...	0'14	0'07	1'14	0'14	0'44	0'64	0'67	1'40	0'08	1'70	1'70	0'20	0'53	0'14	0'13	1'12	0'22	...	...
NORTH BENGAL	Purneah ...	Kisengunge...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrareah...	...	0'33	...	...	...	...	...	...	...	...	...	...	...	...	...	0			

Bengal in September 1890—continued.

31	32	33	34	35	36	37	38	39	40	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th Sept. 1890.	Average rainfall from 1st January up to 30th September.	District.	Station.	Meteorological division.
0.90	0.50	2.50	0.25	0.35	0.22	13	16.9	8.35	12.95	2.50	74.13	89.09	Patuakhally	Backergunge.	EAST BENGAL—contd.
0.22	0.18	1.12	0.45	0.10	2.42	0.19	...	...	...	15	15.0	7.17	11.15	3.02	60.60	71.75	Perozepore.	
0.19	1.60	0.75	...	0.92	0.60	...	...	...	...	13	20.2	7.43	11.44	1.00	65.17	73.16	Burisal.	
0.36	0.67	0.90	...	0.20	0.25	0.08	...	...	...	12	19.4	4.51	11.81	0.90	64.72	83.87	Bhola.	
...	2.05	0.60	...	0.25	...	...	...	...	...	6	?	4.50	?	2.05	46.57	?	Gournaddi.	
...	2.00	2.40	...	...	...	...	...	...	...	10	?	8.62	?	3.40	66.63	?	Basphal.	
...	1.24	0.68	...	...	1.55	...	...	...	...	17	19.9	13.98	16.32	5.73	94.94	102.58	Noakholly	Noakholly.
...	0.25	...	...	0.35	...	...	...	...	...	13	17.4	9.15	16.01	3.40	107.08	111.71	Fenny.	
...	1.75	0.90	...	0.35	...	...	...	...	...	18	?	21.30	?	4.90	100.53	?	Harishpore.	
...	0.40	0.30	...	0.65	...	0.12	...	...	...	7	?	3.07	?	1.50	69.45	?	Ramganj.	
0.50	0.05	0.12	0.32	0.56	0.23	7	13.7	2.06	8.30	0.50	43.13	63.03	Madaripore.	Furteedpore.	
0.25	0.05	0.12	0.75	0.05	0.25	...	...	...	...	14	14.4	4.04	9.39	1.02	51.63	64.43	Furteedpore.	
...	0.50	0.31	0.51	0.59	0.00	...	...	...	...	10	13.1	6.17	8.11	1.24	59.07	57.92	Goalundo.	
...	0.09	...	...	0.25	...	...	...	...	...	8	14.7	3.43	12.20	1.20	63.00	78.91	Munshigunge.	Dacca.
...	0.21	...	...	0.14	...	...	...	...	...	8	14.7	1.38	9.02	0.50	65.15	67.08	Dacca.	
...	0.54	...	...	0.18	...	...	...	...	...	9	15.1	1.39	9.30	0.94	67.64	69.31	Narsingung.	
...	1.35	0.45	...	0.23	0.29	0.15	0.53	...	...	12	13.8	6.37	7.38	1.77	62.56	57.63	Manickgunge.	
0.12	0.28	0.21	...	0.58	...	...	...	...	...	17	?	8.03	?	1.40	72.98	?	Joydebpore.	
...	1.80	0.44	...	0.10	0.45	...	...	...	...	18	15.8	8.33	10.16	1.86	75.34	72.85	Agartola	Hill Tipperah.
0.07	0.08	...	0.70	0.22	0.05	12	17.8	4.34	11.43	0.06	64.69	85.90	Comilla	Tipperah.	
0.20	0.20	0.87	...	0.30	...	...	...	...	...	9	16.4	4.23	11.80	1.10	62.19	80.85	Chandpore.	
0.01	...	...	...	0.40	...	...	...	...	...	8	18.0	4.02	11.01	1.00	63.65	74.10	Brahminbaria.	
1.06	0.74	...	...	0.21	...	...	...	...	...	14	?	5.57	?	2.03	77.32	?	Ramchandrapore.	
...	...	...	...	0.50	...	...	...	...	...	5	?	2.55	?	1.30	62.61	?	Nasirnagar.	
...	0.75	...	0.20	0.15	...	...	...	...	...	7	?	2.00	?	0.75	59.65	?	Daudkandi.	
...	...	...	...	...	...	...	...	...	...	8	?	0.61	?	0.50	60.35	?	Kasba.	
...	...	...	...	1.65	...	...	...	...	...	8	?	3.03	?	1.05	77.38	?	Laksham.	
0.05	0.90	...	...	0.43	...	0.60	...	...	...	14	16.4	7.98	12.34	3.08	75.60	77.44	Kishoregunge.	Mymensingh.
...	1.11	0.18	2.35	6	11.3	4.87	9.47	2.35	55.03	65.79	Atia (Tangail).		NORTH BENGAL.
...	...	...	...	0.54	0.35	2.00	...	...	...	18	16.7	9.60	14.03	3.74	82.69	86.46	Mymensingh.	
...	...	...	...	0.64	3.02	5.10	...	...	...	11	15.6	14.10	13.70	6.10	82.51	70.40	Jamalgore.	
0.17	...	...	...	1.10	1.00	0.50	...	...	...	15	17.4	10.60	13.68	2.05	97.48	87.93	Notrikona.	
1.10	0.22	0.48	...	...	0.55	...	...	...	...	12	?	10.80	?	5.65	80.71	?	Subornakhal.	
...	...	...	...	...	2.45	...	...	...	...	11	?	12.45	?	2.38	121.42	?	Durgapore.	
0.37	...	...	...	1.08	1.81	4.94	...	...	...	13	?	12.58	?	4.54	73.63	?	Sherepore Town.	
...	...	...	...	0.25	0.30	...	...	...	...	5	?	9.94	?	6.50	70.83	?	Dewanganj.	
1.04	0.08	0.48	1.54	0.14	0.21	0.79	2.31	0.03	...	14	16.3	8.85	11.06	2.51	56.68	69.19	Pubna	Pubna	
...	0.79	...	...	0.07	2.33	7.14	...	...	...	13	12.9	15.95	9.48	7.14	67.07	56.15	Serajgunge.	
...	0.27	...	0.27	0.48	5.10	5.90	0.03	16	13.3	17.50	9.94	5.90	71.19	89.30	Sherpore	Bogra.	
...	0.14	...	...	0.12	0.34	1.33	4.57	...	...	13	14.7	11.50	9.42	4.57	77.34	56.53	Nowkhilla.	
0.38	0.03	...	0.03	0.82	3.65	8.94	...	...	...	10	14.8	18.44	11.78	8.94	72.02	69.28	Roxa.	
0.25	0.05	...	...	8.50	3.60	2.34	...	...	...	13	11.3	13.40	10.41	4.50	75.47	56.20	Panchibibi.	
0.88	0.40	0.01	0.31	...	2.30	1.85	2.17	...	...	14	15.7	10.83	10.85	2.26	64.61	53.33	Beaulah	Rajshahye.
...	1.09	1.80	...	0.08	2.38	5.79	6.05	...	...	13	12.3	20.82	11.78	5.70	86.08	57.61	Natore.	
0.65	0.41	...	...	0.00	5.08	...	...	...	...	11	13.3	13.85	12.88	0.08	60.30	54.94	Naogaon.	
0.21	0.54	0.42	0.03	0.54	4.00	2.15	...	...	...	13	?	11.28	?	4.00	40.76	?	Lalpor.	
...	0.10	...	...	1.70	2.00	...	...	...	...	9	?	6.55	?	2.00	37.36	?	Manda.	
0.20	1.35	0.45	0.04	...	3.45	5.05	1.25	0.01	...	13	14.6	14.43	10.78	5.05	59.99	49.00	Maldah	Maldah.	
0.90	1.42	...	...	...	3.00	4.60	0.05	...	...	10	15.0	11.47	10.35	4.60	54.47	55.33	Chanchal.	
0.11	1.30	0.05	0.03	...	0.35	0.84	0.15	...	...	9	?	14.39	?	6.35	72.13	?	Gajul.	
...	...	...	...	1.28	2.40	1.82	0.03	...	...	11	?	7.78	?	2.40	51.41	?	Saganj.	
0.30	...	...	...	7.80	8.40	...	...	...	...	7	12.5	18.03	11.59	8.40	63.26	55.98	Mohadabpore.	Dinagore.
0.84	...	...	...	4.12	0.22	...	...	...	...	8	13.8	10.44	12.91	0.22	73.70	55.56	Churamon.	
0.70	...	...	...	5.95	0.25	...	...	...	...	7	13.0	10.75	10.35	0.25	81.31	59.53	Raigunge.	
0.45	0.04	...	...	2.63	0.44	0.42	...	...	...	15	15.8	14.90	12.62	0.44	79.23	69.50	Dinagore.	
1.04	...	...	...	7.62	0.55	1.00	...	...	...	10	13.3	22.57	12.25	7.62	74.61	64.12	Hakorghat.	
...	1.57	7.67	0.11	13	?	18.42	?	7.67	90.05	?	Thakurgaon.		
1.65	...	...	...	0.45	7.05	27.00	...	...	...	14	11.3	42.13	11.67	27.00	115.08	63.71	Bhawankunge (Gyabanda).	Bungpore.
0.15	0.13	...	...	1.92	10.40	2.86	...	...	...	19	10.2	23.54	13.00	10.40	85.40	78.58	Bungpore.	
0.03	0.19	...	...	0.53	8.45	0.76	...	...	...	17	12.5	19.07	12.71	5.45	87.54	82.07	Kurigram.	
...	0.15	...	...	2.75	8.24	0.21	...	...	...	18	14.0	21.65	14.85	8.25	101.04	86.41	Barddham.	
...	...	...	...	0.95	10.28	5.30	...	...	...	11	?	21.55	?	10.28	93.16	?	(Nalhamari.)	
0.05	...	...	...	0.27	3.79	0.06	...	...	...	19	17.2	21.27	23.59	3.94	144.51	123.85	Jalpirgore.	Jalpirgore.
...	...	...	...	0.39	2.75	...	...	...	...	13	?	30.07	?	8.91	185.61	?	Alipore Darg.	
0.50	...	...	...	...	3.00	...	...	...	...	12	?	31.70	?	4.79	140.39	?	Palacotta.	
1.33	...	...	...	1.50	0.55	0.07	...	...	...	19	?	19.78	?	5.65	108.03	?	Debiganj.	
...	0.00	2.30	0.42	19	?	37.10	?	11.97	177.81	?	Bhagnpore (Nagrakatta.)		
...	...	...	...	0.67	5.21	0.42	...	...	...	19	16.1	28.37	21.20	7.08	131.43	105.96	Dinhatia	
0.49	...	...	...	0.57	3.64	...	...	...	...	17	16.8	29.86	21.40	3.20	170.30	124.16	Cooch Behar.	Cooch Behar.
0.21	...	...	...	0.72														

Table of Rainfall recorded at Station

[illegible]

Rains for the month of September 1890—concluded.

22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th September 1890.	Average rainfall from 1st January up to 30th September.	Station.	District.	Meteorological division.	
0.30	0.09	...	0.03	0.54	1.54	4.20	0.22	...	9	10.4	8.43	8.00	4.20	51.98	42.10	Tajpore	Durbhanga	NORTH BHARH— consolid.	
0.12	...	...	...	0.03	0.77	3.02	0.70	...	9	11.1	6.10	9.03	3.02	57.48	44.48	Durbhanga.	
0.05	...	...	...	0.76	0.17	2.21	0.38	...	6	10.6	4.37	9.00	2.51	65.01	45.27	Madhubani.	
1.25	...	...	...	1.95	2.60	0.38	0.20	...	9	?	7.43	?	5.00	51.51	45.27	Bahera.	
0.09	0.03	0.03	0.22	8.58	0.40	...	9	9.3	7.50	9.35	8.55	52.35	42.73	Atamari	Muzaffarpore		
0.09	...	...	...	0.08	1.42	2.48	0.72	...	10	11.0	5.00	8.25	2.48	55.33	40.96	Manifarpore.	
0.09	...	...	...	0.08	1.54	2.29	0.32	...	11	11.4	8.20	7.10	2.20	48.81	40.20	Hajipore.	
0.10	...	...	...	2.64	1.67	3.70	1.00	0.09	9	?	13.98	?	3.70	66.01	45.27	Para.	
0.10	0.20	1.00	0.17	0.20	...	8	?	5.00	?	1.80	45.73	35.27	Mahua.			
0.10	...	...	...	0.20	1.10	8.70	0.50	...	10	?	9.75	?	3.70	50.88	35.27	Sukhar.	
0.09	...	...	...	...	...	2.70	...	...	4	?	4.35	?	2.70	50.16	35.27	Papri.	
0.09	...	...	...	...	0.74	4.12	0.26	...	8	9.3	10.66	8.09	4.12	66.03	44.47	Motihari	Champan.
0.09	0.60	1.68	10	9.7	7.40	9.34	1.08	60.98	47.65	Bettiah.			
0.09	0.10	1.08	2.93	0.11	...	11	?	9.18	?	2.08	57.03	45.27	Baherwa.		
0.09	...	...	...	0.46	1.45	1.09	...	...	8	9.8	7.39	7.38	2.43	51.39	41.70	Gopalgunge	Saran.
0.09	0.10	0.15	...	2.20	1.40	0.45	...	...	11	11.8	11.01	8.83	4.41	50.45	41.59	Sewan.	
0.09	0.00	2.30	1.04	0.17	0.03	...	9	9.1	8.04	7.21	2.39	47.40	30.92	Chuprah.			
0.23	0.29	0.15	2.64	0.44	0.22	...	8	12.6	8.46	7.43	2.73	51.43	35.85	Buxar	Shahabad		SOUTH BHARH.
1.05	0.31	0.10	...	0.19	2.33	0.45	0.09	...	10	12.1	5.28	7.37	2.83	48.16	35.84	Dehree.			
1.10	0.45	0.20	0.30	0.70	3.45	0.30	0.15	...	12	10.3	7.91	6.70	2.45	41.25	30.12	Bhuboah.			
0.02	0.47	0.21	0.07	0.22	3.29	0.38	0.28	...	11	12.1	6.70	6.85	3.29	44.39	35.85	Sasaram.			
0.09	1.09	...	0.20	0.27	2.10	1.16	0.19	0.03	12	12.2	8.02	8.85	2.10	63.90	41.08	Armb.			
0.09	...	...	0.60	2.06	1.00	...	...	...	7	?	0.00	?	2.00	36.30	25.27	Mohantah.	
0.25	0.18	0.41	...	0.20	2.16	0.27	0.04	...	10	9.0	5.03	7.15	2.10	59.34	40.92	Aurangabad	Gya.		
...	...	0.04	0.16	0.02	2.96	2.09	0.18	...	7	12.4	6.02	7.15	1.06	60.94	35.92	Gya.			
...	...	0.35	0.13	0.45	2.04	...	0.09	0.06	9	9.4	3.80	6.84	2.04	54.69	39.30	Nowadah.			
...	0.21	...	...	0.04	2.68	0.72	0.15	0.10	9	8.6	4.57	6.72	2.08	55.39	35.13	Jahansbad.	
...	0.10	0.30	...	...	3.10	2.40	...	...	7	?	8.60	?	1.80	20.05	15.27	Arwal.	
...	0.30	1.29	...	0.30	1.00	1.00	...	...	8	?	4.70	?	1.10	35.14	25.27	Daudnagar.	
...	0.60	...	0.50	0.30	1.05	1.11	0.30	...	8	?	4.01	?	1.11	20.05	15.27	Sheerghati.			
0.13	...	0.15	...	0.12	0.30	1.40	...	0.50	8	?	3.48	?	1.40	44.82	35.13	Rajauli.			
...	...	...	0.20	0.14	0.36	2.00	...	...	8	?	3.09	?	2.00	41.27	35.13	Pakri Bara- wan.	
0.18	0.29	...	0.15	0.10	1.14	1.51	0.22	...	11	12.0	4.94	7.87	1.51	51.03	34.70	Patna	Patna.		
2.40	0.35	0.28	2.40	0.45	0.05	...	9	10.0	9.54	8.02	2.35	51.53	39.18	Dimpore.			
...	0.23	...	0.03	0.25	0.90	3.00	0.10	0.07	11	12.0	7.08	6.38	3.00	48.13	40.83	Behar.			
...	0.50	0.10	...	...	0.70	4.00	...	...	7	14.3	7.80	7.88	4.00	43.43	34.97	Barhi.	
...	0.47	...	...	0.06	3.60	0.36	0.11	...	8	?	5.03	?	1.80	57.02	45.27	Buckram.	
...	0.29	0.17	0.30	0.23	1.12	2.13	0.11	...	9	?	7.25	?	2.07	69.80	45.27	Hula.			
0.05	0.05	...	0.50	0.10	0.32	2.85	0.06	...	11	11.1	5.84	7.20	2.85	43.74	30.06	Bogomara	Monghyr.		
0.18	1.00	...	0.24	0.03	2.24	2.02	0.03	0.03	10	12.8	6.80	6.44	2.93	54.17	41.50	Monghyr.			
1.40	...	0.13	0.16	0.19	0.70	1.37	0.13	0.08	10	10.4	4.05	7.20	1.40	58.18	42.46	Janui.			
...	0.67	0.89	3.88	0.67	...	7	?	7.50	?	3.85	74.55	45.27	Gopri.			
...	...	...	0.50	0.25	1.30	2.10	...	...	5	?	4.13	?	2.10	45.79	35.13	Sheikpura.	
0.09	0.23	...	...	0.03	1.49	3.03	0.01	...	9	12.8	6.08	7.02	3.05	57.56	45.27	Bhagulpore	South Bhagul- pore.
0.02	0.19	0.10	...	0.02	0.38	1.06	0.07	0.06	12	12.7	3.60	8.03	1.66	42.10	42.06	Bhaka.			
0.02	0.51	0.00	1.40	2.70	0.20	...	10	?	7.80	?	3.70	55.19	45.27	Kalgany.			
...	...	...	0.10	...	...	4.75	0.09	...	6	11.3	10.61	11.86	4.75	50.17	32.37	Rajmahal	South Per- gunnahs.
0.09	0.78	0.08	0.05	0.08	0.77	1.40	0.08	...	9	11.4	8.85	9.53	1.40	47.42	34.73	Gidda.			
0.07	1.05	0.52	0.35	...	2.05	1.90	0.71	0.06	13	15.3	10.70	13.18	2.05	60.08	57.00	Pakour.			
0.07	0.04	0.29	0.17	0.29	0.60	0.94	0.45	0.10	14	17.7	6.90	10.27	1.23	63.50	53.25	Nya Dooinka.			
0.06	0.34	0.47	0.48	0.34	1.11	1.09	0.38	0.18	12	14.9	5.35	8.54	1.11	48.07	48.33	Deokhur.			
0.06	0.46	1.76	0.75	0.09	0.79	0.28	0.33	0.44	15	12.3	5.05	7.85	1.78	57.60	48.33	Jamtara			
...	0.25	0.13	...	0.45	1.39	0.15	0.11	0.15	9	?	3.21	?	1.88	47.08	35.13	Mohapama.			
...	0.14	0.84	...	1.07	0.71	0.41	1.11	...	9	?	4.48	?	1.11	39.08	25.27	Nanshat.			
...	0.31	1.49	0.43	0.30	0.80	0.48	...	0.25	13	16.1	6.74	10.06	1.69	63.76	47.35	Pachamba	Hazarihagh		ORISSA NAAGUR.
1.10	0.17	0.46	0.37	0.29	1.50	0.74	0.09	0.25	12	17.8	7.76	7.63	1.50	48.33	45.06	(Giridi).			
1.27	0.29	0.30	0.20	0.35	1.40	0.13	0.14	0.37	12	14.6	7.30	8.04	1.45	39.54	45.06	Hazarihagh.			
0.63	0.21	0.12	1.08	0.24	1.43	...	0.13	...	12	12.9	7.03	7.03	2.35	55.33	45.06	Semtagurah.			
1.00	0.00	0.40	0.50	0.20	0.60	0.30	0.50	0.60	13	14.7	10.04	10.23	1.90	55.70	50.48	Mahudi Hills.			
...	0.60	0.25	0.13	0.30	0.40	0.62	0.22	0.18	11	?	4.00	?	0.80	48.14	35.13	Jhousrah Hills.			
...	...	0.17	0.00	0.07	0.80	0.70	0.09	...	9	?	8.04	?	0.80	48.08	35.13	Barhi.			
...	0.02	0.47	0.20	0.23	0.77	0.30	0.04	0.05	13	?	3.08	?	0.77	52.15	45.27	Chatra.			
...	1.06	...	0.00	...	1.62	0.47	...	0.00	6	?	9.05	?	2.90	43.90	35.13	Karagdeha.			
...	0.06	0.02	0.20	...	1.30	0.40	...	0.25	11	17.5	5.03	9.16	1.30	53.47	49.41	Lohardugga	Lohardugga.		
0.16	1.56	1.10	0.38	0.40	1.70	0.19	...	0.25	16	16.8	9.30	9.19	2.05	44.55	46.61	Rauchi.			
0.03	0.05	0.02	0.03	0.06	0.81	0.30	0.03	...	13	12.8	5.85	7.90	0.93	41.73	42.36	Palamow.			
0.00	2.09	...	0.70	6	?	7.80	?	3.00	38.59	35.13	Silli.			
0.00	0.13	0.03	...	1.12	...	...	...	...	5	?	9.84	?	3.76				

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS
TAKEN IN ASSAM, FOR THE MONTH OF SEPTEMBER 1890.**

The most notable features in the weather conditions during September are:—

1. During a large part of the month lowest pressure was over the Bay, and at times a trough of relatively low pressure extended from the head of the Bay in a northerly direction over Bengal. Changes of pressure have seldom been large, and readings differed to any large extent from the normal only towards the end of the month.

2. The rainfall distribution was largely influenced by the almost permanent low-pressure area over the Bay, especially during the first half of the month, when very small amounts were received; the defect in North Bengal and Behar being about 2 inches for both the first and second weeks.

3. In ordinary years the western districts of Bengal derive part of their rain from the western current blowing across the Central Provinces, but this year, though steady westerly winds blew over almost the whole of Bengal for several days at the beginning of the month, these winds were so dry that only very scattered showers fell at that time.

4. While the dry westerly winds were blowing in the early part of the month, and even after the ordinary easterly circulation recommenced, clear skies were general and temperature several degrees above the normal, but after the disturbed conditions commenced during the last ten days, a very rapid fall commenced, and some unusually low temperatures were recorded, especially in Behar and North Bengal.

5. As stated above, pressure was generally low over the Bay, but between the 13th and 19th, and again from the 22nd, the differences of pressure increased, causing what may be called the depressions of the month, the former being very shallow and local in its influence, but the latter of greater importance, because of the heavy rain received over the whole of Bengal, which was under its influence from the 22nd till the end of the month.

From the 1st to the 5th lowest pressure was over North Bengal and North Behar, and a steady westerly current was blowing over almost the whole province as far east as the boundary of Assam, where the only showers at that time received in Bengal were probably caused by the meeting of this westerly current with that from the Assam valley. Day after day the stations in this corner reported rain, while elsewhere there was unusually dry, clear weather. On the 6th pressure was low over the Bay, and northerly winds were blowing in Orissa, but at inland stations light, variable breezes were general, or the westerly directions, which were gradually retreating, still obtained. Up till the 9th a trough of low pressure, extending from the centre of the Bay in a northerly direction, gradually drifted from east to west. During its passage variable winds prevailed, but afterwards the ordinary monsoon circulation became established, viz., south or south-west in Lower Bengal and east or south-east in the northern districts. From the 9th to the 13th the distribution of pressure was very uniform, and fine, clear weather prevailed in all districts, except North Bengal, where showers, sometimes heavy, were as general as earlier in the month.

Shallow depression from 13th to 19th.—On the 13th pressure began to fall in the north-west corner of the Bay, and a shallow depression formed, at first covering part of the Bay, Orissa, Chutia Nagpur, and the Central Provinces. After a further brisk fall of pressure it concentrated over Orissa on the 15th, where it practically remained till the 19th, when it filled up. On the 16th and 17th pressure rose to the north of the depression, and this rise forced it towards the south, more over the Circars, but this was the only motion observable while it existed. Rain commenced to fall in the central districts of Bengal on the 13th, and became more general till the 16th, after which it ceased in the north and east, though in South-West Bengal and Orissa showers fell till the 19th.

On the 19th and 20th fine weather generally prevailed, but on the 21st unsettled conditions again began, a depression developing rapidly off the Circars on the 22nd in consequence of the rapid general rise of pressure in the surrounding country, while there it either remained steady or fell.

Depression from 22nd to 30th.—On the 22nd, when the low pressure area first became clearly defined, lowest pressure was at Vizagapatam, just under 29·65 inches, and gradients were steeper than usual, especially towards the north-east, the difference between Vizagapatam and Sibsaigar being a quarter of an inch. On the 23rd there was still further intensification, and gradients were again steeper over the head of the Bay, and in Lower Bengal, a clearly defined indraught towards the area of low pressure resulting. The centre was close to the coast between Gopalpur and Vizagapatam, and on the 24th it was well inland, moving in a north-westerly direction. Between the 25th and 26th the direction of motion was northerly, and after that it moved almost due east, covering part of Chutia Nagpur on the 27th, and almost entirely filling up on the 28th, when a widely diffused low pressure area extended from the north of Bengal as far as the Circars. The barometer continuing to rise rapidly in Bengal on the 29th, pressure was again lowest in the Circars and the adjacent part of the Bay, and the depression was in almost the same position as when it commenced to form a week before, with the difference that pressure was higher by two-tenths of an inch. On the 30th a widely diffused low pressure area covered the Bay, and the distribution was steadily becoming more uniform.

Between the 23rd and 26th rainfall in Bengal was almost entirely confined to the southern districts, and heavy rain fell daily in Orissa, but after the change of direction of motion on the 26th, winds became southerly in Orissa, South-West and East Bengal, and general rain fell in all districts, continuing very heavily in the northern districts on the two following days, and especially in North Bengal after the storm broke up. Local thunder storms occurred over the whole province, the most severe being in North Bengal and the northern parts of East Bengal, and these were in places accompanied by very heavy falls of rain. On the 30th conditions were becoming more settled, and only a few showers fell in Lower Bengal.

Pressure—During the first half of the month underwent small changes only, and the mean was very nearly normal. On the 16th a wave of high pressure, entering the province from the north-east and moving to the south-west, caused a rapid rise of pressure, first in North Bengal and afterwards in the southern districts, and forced the low pressure area from the Orissa coast southwards over the Circars, where it filled. The largest change was .17 inch in Chutia Nagpur on the 17th. Pressure continued to rise rather rapidly, and up till the 26th there was a general excess, varying from .075 inch at Gopalpur to .05 inch in Assam, East and North Bengal and North Behar. After the depression commenced to move to the east from Central India, there was a rapid fall in the western districts, defect amounting to .2 inch at Hazaribagh and Dehree on the 27th. A very rapid rise followed on the 28th in Chutia Nagpur and South Behar, and in the central districts on the 29th, after which a slow rise continued, the distribution becoming very uniform.

The means for the month are below the normal by about .02 inch in the south of Orissa, and above by nearly .03 inch in East Bengal, but elsewhere the difference from the normal is only a few thousandths of an inch.

Temperature—Was below the normal for a day or two at the beginning of the month, when a steady rise setting in, first in the western districts, a considerable excess soon accumulated, averaging 3° or more in Behar, Chutia Nagpur and South-West Bengal and more than 1° over the whole province till about the middle of the month, after which it was generally below the normal, defect being between 3° and 5° at nearly all stations on the 24th. Temperature fell very rapidly between the 27th and 29th in Behar and North Bengal. On the 27th defect was between 6° and 7° in North Behar, and by the following day this had increased to between 10° and 12° at the more western stations, and on the 29th in Behar and North Bengal. Some very low night temperatures were recorded during these days, the lowest being 64.8° in Chutia Nagpur, 65.6° in North Bengal, and 66.5° in Behar. After the filling up of the depression there was a rapid rise, and by the end of the week defect was replaced by excess of 3° in Lower Bengal and 1° in the northern districts.

Rainfall—As stated above, was very scattered during the first half of the month in all districts, except North Bengal, but the formation of the two depressions in the south-west corner of the Bay gave continuous heavy rain in Orissa and part of South-West Bengal, and as the latter and more important of the two ultimately broke up in the northern districts, very heavy rain fell there at the end of the month. The greater part of the province has received deficient rainfall, the whole of North Bengal and the northern parts of Behar and East Bengal, as well as a strip of country running north and south and including Orissa and the western half of South-West Bengal, being the area over which falls have been heavier than usual. The connection of this distribution with the depressions is sufficiently clear, the lower districts being affected during their formation, and the northern districts while the second was filling up. Over the large area including Chutia Nagpur, South Behar, and part of North Behar on the west, and East Bengal and the eastern half of South-West Bengal on the east, the deficiency is very variable, being between 20 and 70 per cent. of the normal at eastern stations, and up to 40 per cent. in the western districts.

The comparison of the actual rainfall of the various large divisions of the province during the month is most accurately shown in the form of a percentage. The figures representing the rainfall for the month, calculated in this way, are included in the following table under the heading of September. This table really gives a condensed summary of the rainfall statistics of the present year up to date for each meteorological division; the first nine columns giving the actual average falls in each division for each month expressed as a percentage of the normal, while the tenth column gives the actual rainfall of the first nine months as a percentage of the normal rainfall for that period.

METEOROLOGICAL DIVISIONS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	Actual rainfall of first nine months of 1890, expressed as a percentage of the normal fall for the period.
Orissa	24	5	216	20	99	124	97	80	168	111
South-West Bengal	98	Nil	39	75	87	141	103	69	104	95
East Bengal	181	4	70	123	102	89	120	88	60	93
North Bengal	98	Nil	26	166	81	132	129	132	148	126
North Behar	38	3	25	40	95	140	174	184	97	130
South Behar	Nil	5	63	80	95	188	186	125	82	123
Chutia Nagpur	Nil	Nil	120	1	65	132	116	75	81	94

The districts which have received more than 50 per cent. excess rainfall are:—Pooree Cuttack, Balasore, Bogra, Dinapore and Rungpore (where the average fall is double the normal): between 25 and 50 per cent.—Burdwan, Rajshahye and Purneah. Those where defect is over 50 per cent. are—Furreedpore, Dacca, and Tipperah: between 25 and 50 per cent.—Khoolna, Jessore, Backergunge, Durbhunga, Gya, South Bhagulpore, Lohardugga, and Manbhoom.

The heaviest falls in Orissa are 22 inches at Balasore and Jellasore, and 21 inches at Cuttack, while amounts at the other stations are nearly all over 15 inches. In South-West Bengal a large number of places received between 10 and 12 inches, except in Khoolna and Jessore, where falls are generally under 7 inches. In East Bengal the heaviest falls are Harrishpore 21·3, Subornakhally 16·8, Kutubdia 15·64, Jamalpore 14·1, and a few others in Ohittagong and Mymensingh between 10 and 12 inches. In Tipperah and parts of Furreedpore and Dacca total falls are generally between 2 and 5 inches. In North Bengal falls are nearly all over 12, and in Rungpore, Julpigoree, Oooch Behar, and Darjeeling over 20 inches. The only reports under 10 inches are Pubna 8·85, Manda 6·55, and Sibgunge 7·78. The rainfall in Purneah is similar to that in North Bengal, amounts being generally between 15 and 20 inches, but in the other districts of North Bengal falls are nearly always between 5 and 10 inches. In parts of South Behar less than 5 inches have been rather frequently registered, especially in Gya and the Sonthal Pergunnahs, but falls elsewhere are usually between 5 and 8 inches. In Chutia Nagpur the distribution is very uniform at about 7 inches.

The mean fall for the whole of Orissa, as shown in the table below, is 17·2 inches, or 6·9 above the normal; and in North Bengal, 19·17, which is 5·75 inches above the normal. The mean for South-West Bengal is practically normal, and for the other districts below the normal by 4·87 inches in East Bengal, 1·68 in Chutia Nagpur, 1·45 in South Behar, and ·32 in North Behar.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of September 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.						
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	96·4	75·8	86·4	78·3	83·3	-0·1	17·21	10·25	+6·96	15·3	15·3	+0·0	53·63	46·08
South-West Bengal	108·47	69·37	89·2	78·0	83·6	+0·1	9·30	9·04	+0·26	14·6	14·6	+0·0	45·50	46·67
East Bengal	92·8	71·1	87·2	77·8	82·5	+0·3	7·21	12·06	-4·87	12·2	16·5	-4·3	64·28	67·16
North Bengal	94·5	65·6	87·8	77·0	82·2	-0·4	19·17	13·42	+5·75	14·4	14·3	+0·1	63·27	64·29
North Behar	96·3	66·5	86·3	77·5	82·0	-0·5	9·53	9·85	-0·32	8·9	11·1	-2·2	60·79	64·26
South Behar	97·0	67·3	86·2	77·3	83·3	-0·3	6·53	7·96	-1·43	10·5	12·2	-1·7	60·79	62·67
Chutia Nagpur	91·0*	64·8*	83·9*	71·0*	77·5*	-0·3*	7·03	6·71	-1·32	13·3	15·4	-2·1	43·91	44·77
Assam	94·5	67·3	86·7	75·4	81·1	-1·3								

* Chyebass not included.

The following table gives full data for the comparison of the actual and normal rainfall for the month of September in all districts of the province.

Percentage Table for September 1890.

DIVISION.	DISTRICT.	Normal district rainfall for September.	Actual district rainfall for September 1890.	Percentage of actual to normal rainfall.	Percentage excess (+), defect (-).
Orissa	Pooree	9.48	15.31	168	+ 68
	Cuttack	9.53	16.74	176	+ 76
	Balasore	11.28	16.35	163	+ 68
	Midnapore	8.86	9.86	109	+ 9
	24-Pergunnahs	9.62	10.06	105	+ 5
	Howrah	8.64	9.99	116	+ 16
South-West Bengal	Hooghly	8.43	9.02	107	+ 7
	Burdwan	7.87	11.49	146	+ 48
	Bankoora	8.53	9.96	117	+ 17
	Beerbhoom	9.16	10.21	111	+ 11
	Nudda	8.52	10.17	119	+ 19
	Khoolna	9.33	5.78	62	- 34
	Jessore	8.43	5.12	61	- 39
	Moorshedabad	9.77	9.40	96	- 4
	Chittagong	14.07	11.27	80	- 20
	Backergunge	11.36	7.17	63	- 37
East Bengal	Noakhully	16.26	12.18	75	- 25
	Furzedpore	8.08	3.61	42	- 58
	Dacca	10.06	3.03	30	- 70
	Tipperah	11.58	4.79	41	- 59
	Mymensingh	12.94	9.92	77	- 23
	Pubna	10.27	12.39	121	+ 21
	Bogra	10.70	17.03	159	+ 59
North Bengal	Rajshahye	11.26	15.68	138	+ 38
	Maldah	10.52	12.96	123	+ 23
	Dinagopore	11.17	17.42	156	+ 56
	Rungpore	12.00	25.96	199	+ 99
	Cooch Behar	21.95	26.63	121	+ 21
	Julpigoree	23.59	21.27	90	- 10
	Darjeeling	17.42	16.09	92	- 8
North Behar	Purneah	13.53	18.19	136	+ 36
	North Bhagulpore	9.78	8.56	88	- 12
	Durbhunga	9.26	5.56	60	- 40
	Mozufferpore	8.27	7.03	85	- 15
	Chumparun	9.06	8.86	98	- 2
	Sarun	7.68	8.73	106	+ 6
	Shahabad	7.29	7.76	106	+ 6
South Behar	Gya	6.90	5.4	78	- 27
	Patna	7.20	7.2	99	- 1
	Monghyr	7.76	6.87	76	- 24
	South Bhagulpore	7.98	4.73	59	- 41
	Sonthal Pergunnahs	8.06	6.89	85	- 15
Chutia Nagpur	Hazaribagh	8.10	7.37	91	- 9
	Lohardugga	8.94	5.80	65	- 41
	Singbhoom	8.98	7.14	85	- 15
	Manbhoom	7.68	5.75	75	- 25

METEOROLOGICAL OFFICE, BENGAL ;

C. LITTLE,

The 14th October 1890.

Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of B

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.														
			District.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.							
					Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Rate.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean.
OISSA.	POOREE.	Pooree	29.825	29.837	—	?	182	92.2	9th Oct.	76.0	10th Oct.	90.3	79.3	84.8	—		
		Gopalpore	29.813	29.835	—0.022	N	182	90.2	5, 6 & 9	74.9	10th	89.3	77.4	83.4	—		
		Falso Point	29.811	29.833	—0.022	NW	141	89.5	7, 8	73.6	8th	88.8	75.1	82.0	—		
		Cuttack	Cuttack	29.764	29.846	—0.082	Calm		89.0	7th	74.8	10th	91.8	77.2	84.5	—	
SOUTH WEST BENGAL.	BALASORE.	Balasore	29.780	29.846	—0.066	Calm		90.4	4, 6, 8	73.8	10th	89.8	76.4	83.1	—		
		South-West Midnapore	Raukor Island	29.814	29.842	—0.028	Northerly	182	90.7	9th	74.0	7th	89.4	77.5	83.9	—	
	South 24-Pargunnah	Midnapore	29.690	29.837	—0.147	S, NE	199	92.3	6, 8	75.1	4 & 6	91.2	75.8	83.5	—		
	14-Pargunnah	Calcutta	29.820	29.842	—0.022	Calm	34	89.0	4, 6	74.2	4th	89.3	75.5	82.0	—		
	Howrah	Howrah	29.754	29.855	—0.101	SW	82	91.6	6, 8	76.4	4th	91.0	77.6	84.3	—		
	Hooghly	Hooghly	29.517	29.819	—0.302	Calm & North-easterly	41	92.1	6 & 7	74.0	5th	91.0	76.0	83.5	—		
	Burdwan	Burdwan	29.523	29.839	—0.316	KNE	28	92.5	7th	74.4	5th	91.7	75.7	83.7	—		
	West Burdwan	Ranaghat	29.774	29.843	—0.069	SW, W		90.1	4th	74.8	8th	88.5	76.4	82.6	—		
	Moorshedabad	Krishnanagar	29.790	29.839	—0.049	SE	50	90.8	6, 8 & 10 Oct.	72.8	6th	90.5	74.9	82.7	—		
	Jessore	Jessore	29.807	29.841	—0.034	Variable	40	92.8	4th	76.4	4, 7	90.4	77.5	83.9	—		
	Khoolna	Khoolna	29.770	29.860	—0.090	NW		90.7	7th	72.7	9th	89.2	76.5	82.4	—		
	EAST BENGAL.	CHITTAGONG.	Chittagong	29.770	29.860	—0.090	NW		90.7	7th	72.7	9th	89.2	76.5	82.4	—	
Chittagong Hill Tract			Demaguri	29.821	29.843	—0.022	Calm & North-easterly		90.8	6, 8 Oct.	76.4	5th	89.7	77.3	83.5	—	
Haekerrunge		Barrisal	29.821	29.843	—0.022	Variable	50	89.0	7th	72.3	8th	88.1	75.4	81.8	—		
Noakholly		Noakholly	29.821	29.843	—0.022	Variable	50	89.0	7th	72.3	8th	88.1	75.4	81.8	—		
Furzedpore		Furzedpore	29.818	29.858	—0.040	Calm	34	89.0	6, 7, 9	73.9	4th	87.5	75.9	82.3	—		
Dacca		Dacca	29.813	29.836	—0.023	Variable		91.1	9, 10	74.2	4th	90.2	77.5	83.8	—		
Commillah		Commillah	29.815	29.851	—0.036	ESE	21	90.0	7, 10	74.3	9th	90.2	75.2	82.7	—		
Mymensingh		Mymensingh	29.790	29.842	—0.052	ESE		89.7	10th	73.0	7th	88.2	75.7	82.0	—		
Bogra		Bogra	29.761	29.825	—0.064	Calm		89.3	4, 6, & 10 Oct.	74.1	6, 8, 9	88.5	75.2	81.9	—		
Pubna		Serajpore	29.705	29.842	—0.137	North-easterly	30	90.6	10th	73.7	6th	88.7	75.7	82.2	—		
Rajshahye		Rampore	29.769	29.840	—0.071	Variable	37	90.3	6th	74.1	4th	88.9	76.0	82.9	—		
NORTH BENGAL.		MALDAH.	Maldah	29.754	29.835	—0.081	NE	53	90.9	6th	74.3	6th	90.0	75.9	83.0	—	
	Dinapore		Dinapore	29.736	29.840	—0.104	E, NE		90.1	6, 10	74.1	6th	88.4	75.0	81.7	—	
	Rongpore	Rongpore	29.739	29.836	—0.097	E	54	90.8	10th	73.7	6, 8, 9	88.0	74.9	81.0	—		
	Jalpigore	Jalpigore	29.505	29.837	—0.332	?		89.0	10th	71.1	4, 5, 6, 10th Oct.	86.1	71.6	78.8	—		
	Cooch Behar	Cooch Behar	29.500	—	—	Variable		84.6	—	49.0	8, 9	62.0	51.7	67.2	—		
	Darjeeling Hill Tract	Darjeeling	29.716	29.843	—0.127	NE		89.7	6th	69.0	7th	88.1	74.0	81.0	—		
	Purneah	Purneah	29.649	29.820	—0.171	Variable	53	90.5	7th	75.2	8, 10	89.8	75.2	83.0	—		
	North Bhagulpore	Bhagulpore	29.655	29.829	—0.174	Calm	12	90.2	5-7	73.5	5th	89.3	74.9	83.1	—		
	Mozufferpore	Mozufferpore	29.681	29.820	—0.139	Variable	51	90.9	7th	74.5	8th	89.8	75.8	82.8	—		
	Durbhanga	Durbhanga	29.675	29.823	—0.148	Calm	54	91.2	4, 8, 10	72.8	8, 10	90.4	73.8	82.2	—		
	Chumpran	Chumpran	29.681	29.826	—0.145	Variable	50	91.3	6-7	73.0	10th	90.1	77.5	83.9	—		
	SOUTH BENGAL.	CHAHABAD.	Dehree	29.472	29.837	—0.365	Calm	15	91.3	6th	71.5	7th	89.0	73.0	81.5	—	
Huxar			Huxar	29.587	29.832	—0.245	WNW	80	89.0	7th	74.3	5, 7	89.4	75.0	82.2	—	
Arrah		Arrah	29.631	29.830	—0.200	SW	6	91.4	7th	73.1	10th	90.5	75.0	83.0	—		
Gya		Gya	29.464	29.847	—0.383	Variable	104	91.4	6, 7	73.8	7, 8	90.4	75.4	82.9	—		
Patna		Patna	29.656	29.841	—0.185	Variable	53	91.9	4th	75.7	7th	90.3	76.7	83.5	—		
South Bhagulpore		Bhagulpore	29.655	29.829	—0.174	Calm	12	90.2	5-7	73.5	5th	89.3	74.9	83.1	—		
South Pargunnah		Bohanka	29.712	29.844	—0.132	Variable	38	90.6	7th	67.4	8th	89.4	73.0	81.2	—		
Hazaribagh		Hazaribagh	29.734	29.850	—0.116	Westerly		86.5	6th	68.2	5, 7, 8	83.0	69.1	77.1	—		
Leharduaga		Ranchow	29.718	29.834	—0.116	Calm	56	86.0	7th	66.4	6th	84.7	67.8	76.0	—		
Manbhum		Chydwana	29.074	29.845	—0.771	ENE	28	90.9	7th	70.2	8th	89.8	72.1	80.9	—		
Singbhum		Singbhum	29.508	29.809	—0.301	NE		87.6	10th	70.4	9th	84.5	71.5	78.1	—		
Asam.		Dhubi	29.737	29.854	—0.117	KNE		86.7	6th	72.4	5, 9	85.3	73.8	79.0	—		
SOUTH WEST BENGAL.	SILCHAR.	Silchar	29.750	29.863	—0.113	Calm		94.5	10th	70.3	7th	91.5	78.4	85.0	—		

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The wind is denoted by the letter of the compass point from which it blows. The direction of the wind is determined from the returns sent in by the sub-divisional station for the period in question during the same time in the district sending its returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 10th of October 1890.

DISTRICT OBSERVATIONS.															Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
Average humidity at 9 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.												
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.					
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
82	1.1	0.73	1.59		2.40				44.51			2.3	Pooree	Pooree	ORISSA.		
83	2.4	0.16											False Point				
84	2.1	0.15	1.32	0.09	1.91	-1.82	54.14	45.96	+8.18	0.4	2.2	Cuttack	Cuttack				
85	1.1	0.35	0.15	1.49	0.37	2.08	-1.71	51.69	48.69	+3.10	1.2	2.2	Balasore	Balasore	SOUTH-WEST BENGAL.		
86	6.4	4.96	2.14	1.16	2.14	1.85	+0.29	49.27	55.08	-5.64	2.0	2.4	Saukar Island	South-West Midnapore			
87	0.9	0.22	0.92	0.90	0.24	1.37	-1.13	44.96	47.61	-2.65	1.0	1.7	Midnapore	South 24-Pergunnas			
88	1.9	1.55	1.17	0.92	1.17	1.40	-0.23	46.03	47.58	+0.15	1.4	2.0	Calcutta	24-Pergunnas	SOUTH-WEST BENGAL.		
89	1.4	0.15	0.64	0.83	0.97	1.27	-0.30	57.14	43.08	+14.06	1.0	1.3	Burdwan	Howrah			
90	1.7	Nil	0.25	0.79	0.45	1.34	-0.89	47.14	49.18	-2.04	0.8	1.9	Bankura	Moochly			
91	3.0	0.01	0.20	1.08	0.42	1.44	-1.02	55.90	49.39	+6.51	1.0	1.8	Hankura	Bankura	SOUTH-WEST BENGAL.		
92	1.9	0.20	0.17	1.13	0.41	1.59	-1.18	53.24	47.00	+6.24	0.3	2.2	Kanchanpore	West Burdwan			
93	3.4	0.30	0.63	0.85	0.63	1.45	-0.62	40.88	45.53	+1.65	1.0	2.1	Beharapore	Moorsheadabad			
94	4.0	0.00	0.50	0.93	0.50	1.41	-0.91	40.25	49.17	-2.92	1.6	2.1	Krishnagar	Nuddea	SOUTH-WEST BENGAL.		
95	3.1	1.00	0.10	1.97	0.10	2.00	-2.59	113.93	106.53		1.0	2.8	Jessore	Jessore			
96	2.1	1.75	0.74	1.34	0.78	2.03	-1.25	61.99	70.85	-8.86	2.0	2.3	Chittagong	Chittagong			
97	0.6	0.37	0.68	1.70	0.68	2.72	-2.04	89.75	99.51	-9.76	1.0	2.3	Demagiri	Chittagong Hill Tracts	EAST BENGAL.		
98	3.9	1.23	0.41	1.03	0.91	1.49	-0.54	38.83	51.58	-12.75	0.7	2.1	Barrisal	Backergunge			
99	3.9	0.88	0.82	0.89	0.61	1.47	-0.66	63.34	55.77	-2.43	1.0	2.1	Noakholly	Noakholly			
100	0.4	0.41	0.82	1.56	0.23	2.26	-1.94	54.35	61.08	-9.73	1.3	2.2	Furzedpore	Furzedpore	EAST BENGAL.		
101	2.9	0.76	1.41	1.43	1.55	2.04	-0.40	63.14	61.75	+3.39	1.4	2.2	Dacca	Dacca			
102	2.1	Nil	0.63	1.47	0.07	1.97	-1.90	67.33	64.06	+13.27	0.5	1.8	Commilla	Tipperah			
103	1.7	0.00	0.23	0.98	0.28	1.45	-1.17	49.07	49.37	-0.30	1.0	1.7	Mymensingh	Mymensingh	NORTH BENGAL.		
104	0.7	2.21	0.72	1.19	0.86	1.32	-0.90	65.93	60.46	+15.47	0.7	1.9	Bogra	Bogra			
105	0.6	0.14	0.07	1.49	0.67	1.93	-1.35	54.61	51.03	+3.58	1.0	2.0	Serajunge	Pubna			
106	2.9	0.25	0.14	1.19	0.18	1.91	-1.73	68.48	55.47	+13.01	0.6	1.9	Rampore Beaulah	Rajshahye	NORTH BENGAL.		
107	0.8	1.22	0.78	1.31	1.09	2.38	-0.99	90.06	70.57	+19.49	1.3	1.9	Maldah	Maldah			
108	0.9	4.26	1.69	1.78	2.39	2.35	-0.40	141.80	106.70	+35.10	2.2	2.3	Dinagpore	Dinagpore			
109	3.4	0.07	2.40	1.95	3.38	2.96	+0.42	154.54	116.11	+38.43	3.0	2.4	Rangpore	Rangpore	NORTH BENGAL.		
110	1.4	0.40	0.82	1.30	0.43	1.97	-1.45	74.78	56.24	+18.54	1.3	1.3	Jalpigoree	Jalpigoree			
111	1.0	Nil	Nil	1.79	0.02	2.10	-2.14	50.80	41.63	+9.17	0.0	1.3	Cooch Behar	Cooch Behar			
112	0.3	Nil	Nil	1.45	Nil	1.77	-1.77	55.77	42.71	+13.06	0.0	1.3	Darjeeling	Darjeeling Hill Tracts	NORTH BENGAL.		
113	Nil	Nil	Nil	1.82	0.12	2.55	-2.44	63.94	45.46	+17.48	0.0	1.3	Purneah	Purneah			
114	0.3	0.05	Nil	1.80	Nil	2.07	-2.97	63.12	40.43	+11.69	0.0	1.3	North Bhagulpore	North Bhagulpore			
115	0.7	Nil	Nil	1.80	Nil	2.07	-2.97	63.12	40.43	+11.69	0.0	1.3	Mosufferpore	Mosufferpore	NORTH BENGAL.		
116	0.2	Nil	Nil	1.46	0.18	1.90	-1.72	48.43	37.04	+11.39	0.0	1.3	Durbhanga	Durbhanga			
117	1.6	Nil	Nil	1.46	0.18	1.90	-1.72	48.43	37.04	+11.39	0.0	1.3	Motihari	Champaran			
118	1.1	Nil	Nil	1.50	0.01	1.76	-1.75	50.71	39.49	+11.22	0.0	1.3	Onupra	Saran	NORTH BENGAL.		
119	0.3	Nil	Nil	1.62	0.07	1.80	-1.73	40.83	38.97	+1.86	0.3	1.3	Dohree	Shahabad			
120	0.3	Nil	Nil	1.34	0.10	1.68	-1.58	50.19	40.91	+9.28	0.3	1.3	Buxar	Buxar			
121	0	0.75	0.34	1.28	0.51	1.76	-1.25	53.57	46.17	+7.40	1.3	1.3	Azra	Gya	SOUTH BENGAL.		
122	1.4	Nil	Nil	1.16	0.16	1.60	-1.44	47.08	47.67	-0.59	0.0	1.3	Gya	Gya			
123	1.0	0.36	Nil	0.79	0.56	1.09	-0.83	33.77	48.56	-14.79	0.0	1.7	Bankipore	Patna			
124	0.9	1.20											Bhagulpore	South Bhagulpore	SOUTH BENGAL.		
125	7.0	0.55											South Bhagulpore	Monghyr			
126													Dumka	South Pargunnas			
127													Hazaribagh	Hazaribagh	CHUTIA NAGPUR.		
128													Ranchi	Lohardugga			
129														Mantbhoom			
130													Chyabassa	Singbhoom	ASSAM.		
131													Sibsagar				
132													Dhubri	Assam			
133													Silchar				

on years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional
 stations. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
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Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 10th of October 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 1st May 1890.	Average rainfall from 1st May to date.
			Saturday, October.	Sunday, October.	Monday, October.	Tuesday, October.	Wednesday, 8th October.	Thursday, 9th October.	Friday, 10th October.	Number rainy days.	Rainfall week.				
Oudea	Pooree	Pooree	0.00	1.34	0.00	0.00	0.00	0.14	0.00	1	0.14	0.14	1.94	53.93	41.0
		Khurda	0.00	0.00	0.00	0.00	0.00	0.00	1	1.34	1.34	2.36	57.78	41.0	
		Bampur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.91	62.72	41.0	
		False Point	0.00	0.00	0.00	0.00	0.00	0.16	1	0.16	0.16	2.40	52.30	41.0	
		Gap	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?	
	Ootacab	Satpore	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?
		Pipili	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?
		Jagatsingpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	52.43	41.0
		Bauki	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	44.37	41.0
		Cuttack	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	71.00	41.0
	Balsore	Kendrapore	0.00	0.16	0.00	0.00	0.00	0.00	0.15	2	0.31	0.44	1.76	45.00	41.0
		Jajpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.01	40.37	41.0
		Dharmasala	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?
		Saligore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?
		Chandballi	0.03	0.00	0.00	0.00	0.00	0.00	0.00	1	0.03	0.03	2.18	46.14	41.0
South-West Bengal.	Midnapore	Bhuddrak	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.10	1.74	47.18	41.0	
		Borah	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.10	2.36	53.84	41.0	
		Balsore	0.04	0.00	0.00	0.00	0.00	0.03	3	0.08	0.08	2.32	55.78	41.0	
		Jaliscoe	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	2.00	54.06	41.0	
		Bariopada	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	53.13	41.0	
	24-Pergunnahs	Contal	0.00	0.07	0.00	0.00	0.00	0.00	0.34	1	0.34	0.34	1.69	46.91	53.71
		Raukar Island	3.84	0.00	0.00	0.00	0.00	1.05	3	4.86	4.86	2.17	50.91	53.71	
		Tumlook	0.20	0.00	0.00	0.00	0.00	0.00	1	0.20	0.20	1.01	51.00	53.71	
		Midnapore	0.22	0.00	0.00	0.00	0.00	0.00	1	0.22	0.22	1.53	42.59	53.71	
		Ghatla	0.25	0.00	0.00	0.00	0.00	0.00	1	0.25	0.25	1.58	42.83	53.71	
	Howrah	Kukrahaty	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?
		Garbatia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?
		Diamond Har- bour	0.67	0.00	0.00	0.00	0.00	0.00	0.00	2	1.23	1.23	1.71	51.55	53.71
		Canning Town	0.18	0.38	0.00	0.00	0.00	0.00	2	0.54	0.54	?	?	?	
		Alipore Jail	0.53	0.00	0.00	0.00	0.00	1.72	2	2.05	2.05	1.40	54.28	53.71	
Hooghly	Barrackpore	0.68	0.00	0.00	0.00	0.00	0.00	1	0.83	0.83	1.24	43.45	53.71		
	Dum-Dum	2.04	0.00	0.00	0.00	0.00	0.00	1	2.04	2.04	1.81	45.76	53.71		
	Barasat	1.27	0.48	0.00	0.00	0.00	0.00	2	1.35	1.35	1.45	45.02	53.71		
	Buseorhat	1.74	0.00	0.00	0.00	0.00	0.00	1	1.74	1.74	1.98	46.53	53.71		
	Howrah	0.77	0.00	0.00	0.00	0.00	0.03	2	0.80	0.80	1.40	45.08	53.71		
Hardwar	Mohamra	0.18	0.00	0.00	0.00	0.00	0.00	1	0.18	0.18	1.56	45.47	53.71		
	(Oulharah)	0.18	0.71	0.00	0.00	0.00	0.00	2	0.89	0.89	1.40	46.78	53.71		
	Serampore	1.23	0.00	0.00	0.00	0.00	0.00	1	1.23	1.23	1.44	47.11	53.71		
	Hooghly	0.55	0.00	0.00	0.00	0.00	0.00	1	0.55	0.55	1.90	45.91	53.71		
	Jehannabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?	
Bankura	Culina	1.44	0.00	0.00	0.00	0.00	0.15	2	1.60	1.60	1.45	51.74	53.71		
	Burdwan	0.13	0.00	0.00	0.00	0.00	0.00	1	0.13	0.13	1.17	51.80	53.71		
	Ontwa	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	58.04	53.71		
	Ranagunge	0.01	0.00	0.00	0.00	0.00	0.00	1	0.01	0.01	1.40	51.03	53.71		
	Manikpur	0.53	0.00	0.00	0.00	0.00	0.00	1	0.53	0.53	?	?	?		
Bardhaman	Bankura	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?	
	Bishnupore	1.47	0.00	0.00	0.00	0.00	0.00	1	1.47	1.47	1.57	46.06	53.71		
	Baliara	0.41	0.00	0.00	0.00	0.00	0.00	2	0.46	0.46	1.19	53.78	53.71		
	Khatra	0.93	0.00	0.00	0.00	0.00	0.00	1	0.93	0.93	1.97	35.10	53.71		
	Indas	1.80	0.00	0.00	0.00	0.00	0.00	1	1.80	1.80	?	?	?		
Meerbhoom	Kotalpore	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Anda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Gangajalghati	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Banspur	0.17	0.00	0.00	0.00	0.00	0.13	2	0.29	0.29	?	?	?		
	Sonamukhi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
Jansore	Bh. Soory	0.30	0.00	0.00	0.00	0.00	0.00	1	0.30	0.31	1.26	55.89	53.71		
	Hetampur	0.10	0.00	0.00	0.00	0.00	0.00	1	0.10	0.61	1.41	51.13	53.71		
	Bampur Haul	0.75	0.00	0.00	0.00	0.00	0.00	1	0.75	0.75	1.40	55.03	53.71		
	Hulpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Murari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
Khoolna	Ranaghat	0.54	0.00	0.00	0.00	0.00	0.00	1	0.54	0.54	1.39	48.56	53.71		
	Kulnaghat	0.37	0.00	0.00	0.00	0.00	0.00	1	0.27	0.37	1.40	44.08	53.71		
	Chowadanga	0.41	0.00	0.00	0.00	0.00	0.00	1	0.41	0.41	1.44	39.72	53.71		
	Meherpore	1.25	0.00	0.00	0.00	0.00	0.00	1	1.25	1.25	1.25	44.08	53.71		
	Koostha	0.67	0.00	0.00	0.00	0.00	0.00	1	0.67	0.67	1.54	45.77	53.71		
Jessore	Satkira	0.46	0.16	0.00	0.00	0.00	0.01	3	0.63	0.63	1.63	50.73	53.71		
	Bagirhat	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Khoolna	0.38	0.00	0.00	0.00	0.00	0.00	2	1.16	1.16	1.02	40.06	53.71		
	Nakipur	0.38	0.00	0.00	0.00	0.00	0.00	1	0.34	0.38	?	?	?		
	Kampal	0.15	0.00	0.00	0.00	0.00	0.00	1	0.16	0.16	?	?	?		
Mooreheadabad	Narail	0.71	0.05	0.00	0.00	0.00	0.00	2	0.76	0.76	1.17	40.30	53.71		
	Jessore	0.35	0.03	0.00	0.00	0.00	0.00	3	0.69	0.69	1.26	51.45	53.71		
	Jhenidah	0.15	0.00	0.00	0.00	0.00	0.00	1	0.15	0.15	1.45	44.56	53.71		
	Makoorah	0.45	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	34.25	53.71		
	Bongong	0.00	0.00	0.00	0.00	0.00	0.00	3	0.60	0.60	1.40	38.76	53.71		
Chittagong	Kandi	0.72	0.39	0.00	0.00	0.00	0.00	1	0.72	1.25	1.05	60.53	47.00		
	Berhampore	0.39	0.00	0.00	0.00	0.00	0.00	1	0.39	0.83	1.74	52.41	47.00		
	Lalbagh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Amungunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Jungpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
Chittagong Miri Tracts	Lalgola	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Jaypore	1.05	0.00	0.00	0.00	0.00	0.00	1	1.05	1.05	?	?	?		
	Akhaypur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Kathabari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
Rangoon	Cor's Bazar	0.00	0.10	0.00	0.00	0.00	0.10	1	0.10	0.10	2.66	124.78	131.00		
	Chittagong	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.78	?	?		
	Kutubdia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Sattanya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
Rangoon Miri Tracts	Rangmati	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	Buma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		
Rangoon Miri Tracts	Patunahally	1.00	0.25	0.00	0.00	0.00	0.00	3	1.55	1.55	1.75	71.07	60.00		
	Peronspore	0.25	0.00	0.00	0.00	0.00	0.00	1	0.25	0.25	2.19	87.06	60.00		
	Burrual	0.43	0.58	0.00	0.00	0.00	0.00	4	1.16	1.16	1.87	80.85	60.00		
	Shola	0.27	0.00	0.00	0.00	0.00	0.00	1	0.27	0.27	2.51	50.45	60.00		
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?		

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 10th of October 1890—contd.

Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 4th October.	Sunday, 5th October.	Monday, 6th October.	Tuesday, 7th October.	Wednesday, 8th October.	Thursday, 9th October.	Friday, 10th October.	Number of rainy days.	of Rainfall week.				
BENGAL N.E.	Noncholly	Gourmaddi	0.82	0.62	.....	.....	0.86	.....	.....	Nil	Nil	Nil	?	87.17	?
		Banphal	0.82	0.62	.....	.....	0.86	.....	.....	1	1.00	1.00	?	88.12	?
		Noakholly	.....	.....	0.82	.....	0.81	.....	1.05	1	0.31	0.31	2.87	88.57	109.71
	Furzedpore	Fenny	.....	.....	.....	.....	.....	.....	.....	1	1.05	1.05	2.88	88.92	98.21
		Harishpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60.48	?
		Ramganj	.....	.....	.....	.....	.....	.....	.....	1	0.13	0.13	1.61	88.40	88.40
	Dacca	Madaripore	0.18	.....	.....	.....	.....	.....	.....	Nil	Nil	1.33	1.43	89.07	89.07
		Furzedpore	1.09	.....	.....	.....	.....	.....	.....	1	1.09	1.09	1.44	89.50	89.50
		Goalundo	.....	.....	.....	.....	.....	.....	.....	1	0.30	0.30	1.91	89.81	89.81
	Hill Tipperah	Munichgunge	0.90	.....	.....	.....	.....	.....	.....	1	1.12	1.12	1.84	89.94	89.94
Dacca		1.12	.....	.....	.....	.....	.....	.....	1	0.39	0.39	1.84	89.81	89.81	
Narainkunge		0.30	.....	.....	.....	.....	.....	.....	1	0.38	0.38	1.17	89.30	89.30	
Manickkunge		0.38	.....	.....	.....	.....	.....	.....	1	0.83	0.83	?	60.74	?	
BENGAL N.W.	Tipperah	Joydebpore	0.83	.....	.....	.....	.....	.....	.....	1	0.83	0.83	?	60.74	?
		Agartala	0.63	.....	.....	.....	.....	.....	.....	1	0.63	0.63	1.90	89.86	89.87
		Comilla	0.07	.....	.....	0.03	.....	.....	.....	1	0.10	0.10	2.03	89.13	71.76
	Mymensingh	Chandpore	0.19	.....	.....	.....	.....	.....	.....	1	0.18	0.18	3.56	89.44	70.92
		Brahmunberia	0.14	.....	0.11	.....	.....	.....	.....	2	0.35	0.35	1.73	89.68	67.32
		Ramchandrapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67.68	?
	Mymensingh	Nasirnagar	0.00	.....	.....	.....	.....	.....	.....	Nil	0.00	0.00	?	83.61	?
		Daudkandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	83.61	?
		Kasba	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	83.61	?
		Lakshmi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	83.61	?
BENGAL S.E.	Kishoreganj	Kishoreganj	0.65	.....	1.83	.....	.....	.....	.....	1	2.68	2.68	2.13	89.35	89.37
		Atia (Tangail)	0.64	.....	.....	.....	.....	.....	.....	1	0.68	0.68	1.76	89.25	81.40
		Mymensingh	0.64	0.03	.....	.....	.....	.....	.....	2	0.69	0.69	1.94	89.71	69.63
	Jalpaiguri	Jamalpore	.....	0.52	.....	.....	.....	.....	.....	1	0.52	0.52	1.78	89.30	61.01
		Netrokona	.....	2.70	.....	.....	.....	.....	.....	1	2.70	2.70	2.68	89.32	76.56
		Subarnachal	0.05	.....	.....	.....	.....	.....	.....	1	0.05	0.05	?	81.02	?
	Dinajpur	Durgapore	2.52	2.90	.....	.....	.....	.....	.....	2	5.42	5.42	?	111.68	?
		Sherepore	0.22	0.14	.....	.....	.....	.....	.....	2	0.66	0.66	?	89.59	?
		Sherepore Town	.....	.....	.....	.....	.....	.....	.....	1	0.46	0.46	?	68.86	?
		Dewanganj	.....	.....	.....	.....	.....	.....	.....	1	0.46	1.01	?	68.86	?
Pubna	Pubna	0.30	.....	.....	.....	.....	.....	.....	1	0.30	0.30	1.74	89.39	80.16	
	Beranjan	0.17	.....	.....	.....	.....	.....	.....	1	0.17	0.17	1.12	89.53	48.63	
Bogra	Sherepore	0.03	.....	.....	.....	.....	.....	.....	1	0.03	0.03	1.62	89.12	51.68	
	Nowkulla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2.35	89.24	50.69	
	Hogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.47	89.15	57.63	
Rajshahye	Panchbibi	.....	0.07	.....	.....	.....	.....	.....	1	0.07	0.23	2.23	79.63	63.14	
	Beaulah	3.08	.....	.....	.....	.....	.....	.....	1	3.08	2.11	1.60	89.93	40.39	
	Natore	0.08	.....	.....	.....	.....	.....	.....	1	0.08	0.08	1.73	77.37	51.22	
BENGAL S.W.	Malda	Naogaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.39	1.84	89.91	50.77
		Naogaon	.....	.....	.....	.....	.....	.....	1.70	1	1.70	2.02	?	45.74	?
		Naogaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.40	?	35.47	?
	Malda	Malda	0.12	0.02	.....	.....	.....	.....	.....	2	0.14	0.14	1.97	89.80	45.40
		Chanchal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.87	89.20	54.80
		Gajol	.....	0.10	.....	.....	.....	.....	.....	1	0.10	0.10	?	77.08	?
	Dinajpur	Stiganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49.44	?
		Mohadebpore	0.16	.....	.....	.....	.....	.....	.....	1	0.16	0.16	1.69	89.50	54.58
		Churamon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.50	70.50	61.09
	Rangpur	Haikunja	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2.40	70.50	56.23
Dinajpur		.....	0.40	.....	.....	.....	.....	.....	1	0.40	0.40	2.40	72.42	69.74	
Raiorchai		.....	0.35	.....	.....	.....	.....	.....	1	0.35	0.35	1.40	70.97	49.91	
Thakurgaon		0.11	.....	.....	.....	.....	.....	.....	1	0.11	0.11	?	89.56	?	
Rangpur	Buamangal	.....	0.50	.....	.....	.....	.....	.....	1	0.50	1.45	2.24	104.23	59.05	
	Gyabanda	.....	.....	.....	.....	.....	.....	.....	1	1.17	1.17	2.01	77.75	70.72	
	Rangpur	1.17	.....	.....	.....	.....	.....	.....	2	0.30	2.90	2.30	89.92	70.51	
	Kurigram	0.23	0.07	.....	.....	.....	.....	.....	1	0.30	2.90	2.30	89.92	70.51	
	Rangpur	.....	.....	.....	.....	.....	.....	.....	1	1.15	1.23	2.83	97.14	62.01	
Jalpaiguri	(Nalbamari)	0.08	.....	.....	.....	.....	.....	.....	1	0.08	1.43	?	81.17	?	
	Ulipore	.....	.....	.....	.....	.....	.....	.....	1	0.08	1.43	?	81.17	?	
	Jalpaiguri	0.85	3.15	.....	.....	.....	.....	.....	2	3.00	5.95	2.45	143.22	113.25	
	Alipore	0.75	.....	.....	.....	.....	.....	.....	1	0.75	2.93	?	170.18	?	
	Fallacotta	.....	3.23	.....	.....	.....	.....	.....	1	3.23	4.85	?	184.56	?	
	Debiganj	1.00	.....	.....	.....	.....	.....	.....	1	1.00	1.92	?	204.40	?	
	Bhagatpore	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	?	171.98	?	
	(Nayrakatta)	2.20	.....	1.03	0.24	0.05	.....	.....	4	3.53	4.85	?	171.98	?	
	Dinhat	0.12	0.05	.....	.....	.....	.....	.....	2	0.47	0.76	2.90	112.78	92.18	
	Cooch Behar	.....	0.40	0.06	.....	.....	.....	.....	2	0.46	1.00	2.01	127.83	115.30	
Darjeeling Hill	Mickligunge	0.50	1.30	.....	.....	.....	.....	.....	2	1.80	2.06	2.06	135.89	102.39	
	Matabhanga	0.02	1.13	0.08	.....	.....	.....	.....	3	1.17	2.11	4.05	130.08	100.01	
	Busa	3.37	8.00	0.44	0.19	0.95	.....	.....	5	7.95	9.37	5.19	180.33	156.67	
	Siliguri	1.15	0.17	.....	0.14	0.06	.....	.....	3	1.46	2.36	2.45	180.33	100.10	
	Darjeeling	.....	.....	0.01	.....	0.06	.....	.....	2	0.07	0.83	2.20	140.03	102.42	
Purneah	Kalimpong	0.08	.....	.....	0.05	.....	.....	.....	2	0.13	0.57	1.92	111.18	76.25	
	Kurseong	.....	0.10	.....	0.04	.....	.....	.....	2	0.14	0.28	?	130.45	?	
	Kurseong	.....	.....	.....	.....	.....	.....	.....	2	0.14	0.28	?	130.45	?	
BENGAL S.W.	Kishoreganj	Kishoreganj	0.12	0.14	.....	.....	.....	.....	.....	2	0.36	0.36	1.56	89.83	67.83
		Arrarah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.41	1.90	77.76	81.47
		Purneah	0.11	0.33	.....	.....	.....	.....	.....	2	0.46	0.46	2.08	83.14	58.97
	North Bhagalpor	Gundara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.70	?	88.40	?
		Raibarnpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	89.21	?
		Masuri	.....	0.29	.....	.....	.....	.....	.....	1	0.29	0.63	?	89.21	?
	Durbhunga	Kataganj	0.03	.....	.....	.....	.....	.....	.....	1	0.03	0.83	2.42	89.20	47.05
		Madhapore	.....	0.06	.....	.....	.....	.....	.....	1	0.06	0.15	1.44	89.20	40.10
		Seepool	0.75	.....	.....	.....	.....	.....	.....	1	0.75	0.75	?	67.40	?
	Meanderpore	Protobganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2.07	89.20	41.21
Tajpore		.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.74	89.20	43.04	
Durbhunga		.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.47	89.20	43.05	
Meanderpore	Madhapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	89.20	?	
	Rahero	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	89.20	?	
	Rahero	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	89.20	?	
	Meanderpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	89.20	?	
	Meanderpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	89.20	?	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 10th of October 1890—concluded.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st May 1890.	Average rain-fall from 1st May 1890.
			Saturday, 4th October.	Sunday, 5th October.	Monday, 6th October.	Tuesday, 7th October.	Wednesday, 8th October.	Thursday, 9th October.	Friday, 10th October.	Number rainy days.	Rainfall week.				
NORTH BHAR - concluded.	Champanan...	Motihari	...	...	...	...	...	...	NH	NH	NH	2'47	65'00	
		Bettiah	...	...	...	...	...	...	NH	NH	0'24	2'05	60'24	
		Bazaha	...	...	...	...	...	...	NH	NH	?	?	50'53	
		Barkherwa	...	...	...	...	...	...	NH	NH	0'08	?	50'53	
SOUTH BHAR	Sarus	Gopalgunge	...	...	...	...	...	...	NH	NH	NH	4'38	51'00	
		Sown	...	...	...	...	...	...	NH	NH	NH	2'30	50'03	
		Chuprah	...	...	...	...	...	...	NH	NH	NH	2'15	45'33	
		Buzar	...	...	...	...	...	...	NH	NH	NH	1'77	50'07	
	Shahabad	Dahra	...	...	...	...	...	...	NH	NH	0'03	1'05	42'70	
		Bhaboah	...	...	...	...	...	...	NH	NH	NH	1'00	40'80	
		Sumerain	...	...	...	...	...	...	NH	NH	NH	2'05	43'25	
		Arrah	...	...	...	...	...	...	NH	NH	0'80	1'05	04'04	
	Gya	Mohaniah	...	...	...	...	...	...	NH	NH	NH	?	50'07	
		Aurungabad	...	...	...	...	...	...	NH	NH	NH	2'10	53'08	
		Gya	...	...	...	...	...	...	NH	NH	0'02	1'33	50'72	
		Nowadab	...	...	...	...	...	...	NH	NH	NH	1'52	54'41	
	Patna	Johannabad	...	...	...	...	...	...	NH	NH	NH	2'00	52'03	
		Arwal	...	...	...	...	...	...	NH	NH	NH	?	53'43	
		Handwagar	...	...	...	...	...	...	NH	NH	NH	?	50'08	
		Sherrphati	...	...	...	...	...	...	NH	NH	0'05	?	38'09	
	Monghyr	Kajauli	...	...	...	...	...	...	NH	NH	0'26	?	45'04	
		Pakri Barawan	...	...	...	...	...	...	NH	NH	1'00	?	52'37	
		Patna	...	...	...	...	...	...	NH	NH	NH	1'80	40'00	
		Dumra	0'20	1	0'20	0'27	1'01	50'43	
	South Bhagal-pore.	Behar	...	...	...	...	...	...	NH	NH	NH	1'60	50'84	
		Barh	...	...	...	...	...	...	NH	NH	NH	1'70	42'00	
		Buckram	...	...	...	...	...	...	NH	NH	NH	?	50'07	
		Hilsa	...	...	...	...	...	...	NH	NH	NH	?	40'17	
	Mouthal Per-gunnahs.	Bowosera	...	...	...	...	...	...	NH	NH	NH	1'55	42'03	
		Mouthal	...	...	...	...	...	...	1	0'08	0'08	1'79	52'64	
		Jamui	...	...	...	...	...	...	NH	NH	0'12	1'45	58'20	
		Gogri	...	...	...	...	...	...	NH	NH	NH	?	72'10	
South Bhagal-pore.	Sheikpura	...	...	...	...	...	...	NH	NH	NH	?	45'79		
	Bhagalpore	...	...	...	...	...	...	NH	NH	NH	2'04	55'36		
	Bhaka	...	...	...	...	...	...	NH	NH	0'20	1'55	58'74		
	Kilga	...	...	...	...	...	...	1	0'25	0'25	?	50'54		
Mouthal Per-gunnahs.	Bongson	...	...	...	...	...	...	NH	NH	0'25	?	50'54		
	Rajmehal	...	...	0'11	...	...	...	...	1	0'11	0'11	1'77	40'52	
	Godda	...	...	...	...	0'05	...	...	1	0'05	1'15	1'50	40'24	
	Pakour	...	...	...	...	0'01	...	...	3	0'00	0'22	3'01	62'12	
Chittagong	Nya Doomba	...	...	...	...	...	...	...	2	0'70	0'70	2'01	52'55	
	Dooghur	...	...	...	...	...	...	...	NH	NH	0'44	1'40	45'30	
	Jamtara	...	...	...	...	...	...	...	1	0'12	0'44	1'82	50'47	
	Mohagama	...	...	...	...	...	...	...	NH	NH	NH	?	45'53	
Hamaribagh	Nammat	...	...	...	...	...	...	...	1	0'41	0'41	?	37'73	
	Pachamba	...	...	...	...	...	...	...	NH	NH	0'13	1'48	52'40	
	(Giridi)	...	...	...	...	...	...	...	NH	NH	0'07	1'50	40'00	
	Hamaribagh	...	...	...	...	...	...	...	NH	NH	0'10	1'57	38'24	
Lohardugga	Semtagurah	...	...	...	...	...	...	...	NH	NH	0'07	1'07	41'52	
	Mahudi Hills	...	...	...	...	...	...	...	NH	NH	NH	1'01	54'20	
	Jhoomra Hills	...	...	...	...	...	...	...	NH	NH	0'10	?	47'34	
	Bara	...	...	...	...	...	...	...	1	0'15	1'33	?	40'36	
Singbhoom	Chitra	...	...	...	...	...	...	...	NH	NH	2'03	?	51'58	
	Karagaha	...	...	...	...	...	...	...	NH	NH	0'40	?	48'11	
	Kamghar	...	...	...	...	...	...	...	NH	NH	1'10	0'00	52'03	
	Lohardugga	...	...	...	...	...	...	...	NH	NH	0'04	1'25	41'57	
Manbhoom	Palasow	...	...	...	...	...	...	...	NH	NH	0'50	1'72	44'14	
	Gilli	...	...	...	...	...	...	...	1	1'10	2'20	?	40'30	
	Salamat	...	...	...	...	...	...	...	NH	NH	NH	?	41'55	
	Mossinabad	...	...	...	...	...	...	...	NH	NH	NH	?	28'30	
Singbhoom	Garwah	...	...	...	...	...	...	...	NH	NH	NH	?	28'30	
	Chypham	0'28	1	0'28	0'84	1'00	33'05	
	Chakradhar-pore	...	...	...	...	...	...	...	NH	NH	NH	?	23'10	
	Ghatella	...	...	...	...	...	...	...	NH	NH	1'35	?	47'37	
Manbhoom	Baharapora	...	...	...	...	...	...	...	NH	NH	0'23	?	48'72	
	Purulia	...	...	...	...	...	...	...	NH	NH	0'07	1'52	41'30	
	Gohindpore	...	...	...	...	...	...	...	NH	NH	0'08	1'53	35'14	
	Maghunath-pore	...	...	...	...	...	...	...	NH	NH	NH	?	58'52	
Singbhoom	Barabhoom	...	...	...	...	...	...	...	0'20	1	0'20	?	42'43	
	Jhaida	...	...	...	...	...	...	...	NH	NH	5'35	?	51'55	
	Chas	...	...	...	...	...	...	...	1	0'08	0'20	?	40'00	
	Chas	...	...	...	...	...	...	...	1	0'08	0'20	?	40'00	

Explanation.—...indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 14th October 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
10TH OCTOBER 1890.**

EXCEPT on October 4th, the first day of the past week, weather was fine and settled, with neither pressure nor temperature differing to any great extent from the normal, and an almost entire absence of rainfall. On Saturday pressure was falling briskly in Behar, where readings were lowest, and up till then south-westerly or westerly winds had been blowing over Bengal as far east as Assam, but a shift to south-east of directions over the eastern half of the province seems to have caused the thunderstorms which prevailed so extensively on the evening of the 3rd in all districts except Behar, Chutia Nagpur, and Orissa, in the last two of which, however, a few scattered showers were received. Rain fell in varying quantity at nearly all stations in North Bengal, South-West Bengal and East Bengal, but after the 4th conditions again became settled with light variable winds in Bengal, and a slow indraught towards a commencing low-pressure area over the Bay. Up till the 6th there was very little change, and then a brisk rise commenced along the foot of the hills, giving relatively highest pressure there and north-east winds in East and North Bengal. At the same time a steady slow fall was going on in the Bay, making the depression daily more definite, at first in the extreme south, and probably covering a large area. By the end of the week it was not far from the coast, moving slowly towards Vizagapatam. The indraught to the low-pressure area stopped the flow of moist air from the Bay, so that during the latter part of the week very fine clear weather was general in Bengal. The influence of the depression, however, was beginning to be felt in Orissa, a few light showers falling there both on Thursday and Friday.

Pressure has been on an average below the normal by about two-hundredths of an inch at nearly all stations; changes have generally been below a twentieth of an inch. There was a brisk to moderate fall during the first two days, then a moderate rise for two days which gave a distribution very nearly normal, and on the last three a general slow fall.

Temperature has been below the normal in Assam and North Bengal, above the normal by less than half a degree in Lower Bengal, and above in Behar by about 1.5°. Changes have been very irregular, but generally small.

Rainfall.—Almost all the rain of the week fell on Saturday the 4th, being caused by the thunderstorms which were so general on that day. The weather almost immediately became more settled, and during the rest of the week only a few light scattered showers fell in East Bengal, chiefly in Chittagong, Backergunge, and Noakhally; in North Bengal in the Cooch Behar and Darjeeling Hill Districts, and in Orissa towards the end of the week. Average falls are very small in Orissa, Behar, and Chutia Nagpur, and very little over half an inch in the other districts. The average fall expressed as a percentage of the normal gives Chutia Nagpur 3, North Behar 7, South Behar 8, Orissa 14, North Bengal 44, East Bengal 49, and South-West Bengal 70.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 10th of October 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1900.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	83.9	73.6	80.0	77.1	83.6	+0.2	0.20	1.46	-1.26	0.9	2.3	-1.3	0.23	52.89	46.90	
South-West Bengal ...	82.8	72.8	80.3	76.3	83.2	+0.4	0.67	0.96	-0.29	1.2	2.0	-0.8	0.70	40.23	48.08	
East Bengal	81.1	72.8	83.9	76.4	83.6	+0.5	0.70	1.44	-0.74	1.3	2.4	-1.1	0.80	53.13	60.27	
North Bengal	80.6	71.1	83.1	76.9	81.3	-0.3	0.60	1.38	-0.78	1.2	1.9	-0.7	0.90	53.10	66.15	
North Behar	81.3	68.9	80.7	75.5	83.6	+1.6	0.10	1.54	-1.44	0.4	1.2	-0.8	0.14	52.20	40.63	
South Behar	81.9	71.5	80.0	75.4	82.7	+1.2	0.11	1.41	-1.30	0.5	1.2	-0.7	0.21	51.78	41.47	
Chutia Nagpur	86.5	85.4	84.9	85.2	75.6	0	0.03	1.12	-1.10	0.1	1.5	-1.4	0.30	44.01	46.65	
Assam	84.5	70.8	87.1	72.0	80.0	-1.0										

* Chyabassa not included.

METEOROLOGICAL OFFICE, BENGAL;

The 14th October 1890.

O. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

**Results of the Meteorological Observations taken at the Alipore Observatory from
5th to 11th October 1890.**

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
Oct.	5th	147.5	10.1	29.728	82.9	89.4	12.2	77.2	78.6	0.924	86.8	83	WSW and calm ..	33	Nil	Chiefly clear, ☁.
"	6th	143.5	8.3	.776	81.4	88.5	12.8	75.7	78.1	.915	76.5	85	Calm and variable...	19	"	Chiefly clear, ☁, ☁.
"	7th	145.5	8.9	.799	81.8	88.5	13.3	75.2	77.1	.971	75.0	81	ENE and calm ...	30	"	Chiefly clear, ☁, ☁.
"	8th	147.3	8.7	.788	81.6	88.4	13.3	75.1	77.7	.898	76.0	84	ENE, calm and variable.	42	1.17	Partially cloudy, ☁, p.
"	9th	149.2	8.1	.772	82.1	88.0	13.3	74.7	78.2	.916	76.6	84	ENE and calm ...	28	Nil	Partially cloudy, ☁, ☁, ☁, ☁.
"	10th	153.0	10.6	.776	82.3	88.8	12.5	76.8	77.4	.875	76.2	79	ESE and calm ...	40	"	Chiefly clear, ☁.
"	11th	147.4	8.0	.784	79.8	88.5	12.1	76.4	75.8	.839	73.4	82	ESE and calm ...	50	"	Partially cloudy, ☁, o. g.

The mean pressure of the seven days 29.775
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.788

The total number of hours of bright sunshine 62.7
 The maximum possible number of hours of sunshine 82.2

The mean temperature of the seven days 81.8
 The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 82.8
 The extreme variation of temperature 14.7
 The maximum temperature 89.4

The highest velocity of the wind in one hour 11
 The highest pressure of wind on one square foot Not measurable.

The mean relative humidity 83
 The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 81

The total fall of rain from 5th to 11th October 1890 1.17
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 1.73
 The total fall from 1st January to 11th October 1890 54.25
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 61.49

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

t, thunder; <, lightning; p, passing temporary showers; ☁, dew; ☁, fog; g, gloomy; o, overcast.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
 Calcutta, the 13th October 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 5th to 11th October 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
October ..	5th ...	29.709	84.9	91.4	13.1	78.8	87.1	80.5	.958	77.8	74	...
" ..	6th ...	.838	83.9	91.0	14.2	76.8	87.6	80.5	.854	74.5	66	...
" ..	7th ...	.874	83.2	90.5	14.7	75.8	87.6	78.5	.854	74.5	68	...
" ..	8th ...	.854	83.6	91.0	15.0	76.0	86.6	79.5	.914	76.5	72	...
" ..	9th ...	.842	83.7	90.4	13.4	77.0	86.1	79.5	.920	76.7	74	0.80
" ..	10th ...	.824	84.2	91.0	13.6	77.4	87.6	79.1	.880	75.8	67	...
" ..	11th ...	.816	84.0	90.2	12.4	77.8	87.6	79.5	.940	76.0	69	...

The mean 10 A.M. pressure of the seven days Inches.
 The mean temperature of the seven days 29.835
 The extreme variation of temperature 83.9
 The maximum temperature 15.6
 91.4

The mean 10 A.M. relative humidity of the seven days %
 70

The total fall of rain from 5th to 11th October 1890 Inches.
 The daily mean temperatures are the crude means of maximum and minimum temperatures. 0.80

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 13th October 1890.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of July 1890.

THE deaths registered in forty-five districts in Bengal during the month of July 1890 were 115,581, and correspond to an annual rate of 21 per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is 24 lower than the average rate of the corresponding months of the past five years 1885—89, and is higher than the rate of the corresponding period of any of the past five years except 1887 and 1889, *vide* the figures below—

	July 1885.	July 1886.	July 1887.	July 1888.	July 1889.	Monthly average of five years, 1885—89.	July 1890.
Ratio of deaths per 1,000 of the population per annum	18.75	16.80	24.84	20.55	25.95	21.24	21.00

The following table shows the highest proportions of deaths registered during the month of July 1890, compared with the corresponding month of 1889 :—

<i>Districts.</i>				<i>Districts.</i>			
Ratio per mille during—				Ratio per mille during—			
July 1890.				July 1889.			
Darjiling	...	48.36	...	Jalpaiguri	...	32.88	...
Patna	...	38.72	...	Balasore	...	28.68	...
Noakhali	...	33.00	...	Khulna	...	26.40	...
Chumpran	...	33.00	...	Gya	...	25.92	...

The total mortality during the month under review from the several registered death causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89 :—

			Ratio per mille during—		
			July 1890.	July 1889.	Monthly average of five years 1885—89.
Cholera	...	...	1.68	3.48	2.64
Small-pox	...	...	.12	.12	.09
Fever	...	...	14.76	16.08	18.80
Bowel-complaints	...	...	.60	.96	.84
Injury	...	...	.72	.84	.72
Other causes	...	...	2.88	3.48	2.88

Compared with the figures of July 1889, there is a noticeable reduction in the mortality of July 1890 under the heads cholera and fever.

The highest annual death-rates from the registered death-causes occurred in the following districts :—

<i>Cholera.</i>		<i>Fever.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Chumparun	15.48	Darjiling	32.28	Darjiling	10.32	Poori	11.64
Patna	5.28	Jalpaiguri	30.36				
Balasore	5.76	Noakhali	30.00				
Mozufferpore	4.68	Khulna	22.20				
Poori	4.32	Rajshahye	21.48				
Cuttack	3.96	Rungpore	20.52				
Shahabad	3.84						
Gya	3.60						
Saran	2.40						
Midnapore	2.16						
Durbhanga	2.04						

The mortality of the month under review, according to Sex, Class and Age, was distributed as follows :—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	22.80	Christians	15.84	Under 1 year	149.04
Females	19.20	Hindus	21.36	1 and under 5 years	24.72
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population	118	Mahomedans	20.52	5 " 10 "	12.48
		Buddhists	17.88	10 " 15 "	10.80
		Other classes	17.04	15 " 20 "	13.80
				20 " 30 "	12.84
				30 " 40 "	14.52
				40 " 50 "	19.56
				50 " 60 "	27.60
				60 years and upwards	46.92

Detailed information regarding the mortuary statistics of the forty-five districts in Bengal during the month under review will be found in the statement appended.

The 8th October 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

MORTALITY ACCORDING TO—

DIVISIONS.		DISTRICTS.		POPULATION.		DISEASE.										SEX.		Ratio of male deaths to every 100 female deaths, calculated on the proportion each mortality bears to the total male and female population.						
						RATIO PER 1,000 OF POPULATION PER ANNUM.																		
						DEATHS FROM—																		
Males.	Females.	Total.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population in the corresponding month.	Ratio of deaths per 1,000 of population in the corresponding month of the previous year.	COMPARISON WITH PREVIOUS PERIODS.	DEATHS ABOVE—	Males.	Females.	RATIO PER 1,000 OF POPULATION PER ANNUM.	
Bardwan	608,805	722,628	1,331,433	3	10	1,427	31	69	484	2,764	02	08	18 34	04	08	404	27 40	18 34	35 38	1,085	943	10 33	15 60	123
Barkura	407,136	534,616	941,752	1	18	1,169	49	63	488	1,661	01	12	12 78	06	04	702	29 32	15 71	30 40	918	783	21 72	17 04	157
Birbhum	281,663	416,935	698,598	454	136	2,352	237	184	784	2,669	04	00	15 88	1 08	04	3 46	24 06	19 31	22 30	2,719	725	23 16	21 00	110
Bidhupur	1,443,106	1,272,370	2,715,476	454	136	2,352	237	184	784	2,669	04	00	15 88	1 08	04	3 46	24 06	19 31	22 30	2,719	725	23 16	21 00	110
Birbhum	1,443,106	1,272,370	2,715,476	454	136	2,352	237	184	784	2,669	04	00	15 88	1 08	04	3 46	24 06	19 31	22 30	2,719	725	23 16	21 00	110
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Birbhum	1,443,106	1,272,370	2,715,476	454	136	2,352	237	184	784	2,669	04	00	15 88	1 08	04	3 46	24 06	19 31	22 30	2,719	725	23 16	21 00	110
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Birbhum	1,443,106	1,272,370	2,715,476	454	136	2,352	237	184	784	2,669	04	00	15 88	1 08	04	3 46	24 06	19 31	22 30	2,719	725	23 16	21 00	110
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Birbhum	1,443,106	1,272,370	2,715,476	454	136	2,352	237	184	784	2,669	04	00	15 88	1 08	04	3 46	24 06	19 31	22 30	2,719	725	23 16	21 00	110
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Birbhum	1,443,106	1,272,370	2,715,476	454	136	2,352	237	184	784	2,669	04	00	15 88	1 08	04	3 46	24 06	19 31	22 30	2,719	725	23 16	21 00	110
Birbhum	1,443,106	1,272,370	2,715,476	454	136	2,352	237	184																

MORTALITY ACCORDING TO—

DIVISIONS.	DISTRICTS.	DEATHS AMONG—				CLASS.		AGE.												RATIO PER 1,000 OF POPULATION PER ANNUM.	
		DEATHS AMONG—				CLASS.		AGE.												RATIO PER 1,000 OF POPULATION PER ANNUM.	
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.
BURDWAN	Burdwan	1,063	381	...	...	...	17.78	16.72	...	...	...	475	146	...	...	...	...	...	...	...	...
	Bankura	1,064	66	...	...	...	19.20	15.48	...	...	...	32.50	...	...	...	...	...	...	...	...	...
	Hirahum	1,170	839	...	...	...	22.88	19.08	...	...	...	27.58	...	...	...	...	...	...	...	...	...
	Hazibul	4,429	197	...	...	...	34.08	30.14	...	...	...	10.44	...	...	...	...	...	...	...	...	...
PRINCIPAL	Burdwan	816	78	...	...	...	21.94	15.90	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total (Haght Includ- ing Burdwan).	1,347	272	...	...	...	19.56	17.16	...	...	...	...	...	...	...	...	...	...	...	...	...
	Howrah	821	816	...	...	...	19.56	19.56	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
RAJSHAHY	Jessore	1,407	2,075	...	...	...	15.94	14.04	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
DACA	Dacca	1,011	1,407	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
CHITTAGONG	Chittagong	1,011	1,407	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
PATNA	Patna	1,011	1,407	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
BAGLPORE	Baglpoore	1,011	1,407	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
CHOTA NAGPORE	Chota Nagpore	1,011	1,407	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Permunah	1,523	1,448	...	...	...	17.78	16.72	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL FOR THE PROVINCE.		119	79,465	59,467	119	2,883	15.94	21.36	20.12	17.88	17.04	19,327	10,253	6,083	8,760	11,672	11,886	10,405	8,889	14,516	14,904

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 27th September 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 27th September 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 22·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·3 below the average rate of the corresponding week of the past five years, and is also below the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	26·9	26·9	18·7	27·3	25·7	25·5	22·2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.		6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.
Bardwan	33·1	33·6	21·4	10·8	Narainganj	29·0	20·7	37·8	41·4
Midnapore	17·0	17·3	13·9	9·3	Chittacong	19·4	9·4	4·7	11·7
Hughli and Chinsurah	30·4	30·4	30·4	18·1	Comilla	27·0	11·6	19·3	27·0
Rampur	36·3	31·4	45·1	41·2	Dacca City	17·2	15·8	14·6	11·4
Uttarpara	37·7	37·7	37·7	25·3	Gya	30·1	20·0	42·4	30·0
Howrah	13·2	21·4	21·8	22·9	Arrah	71·0	10·7	57·4	19·1
Bali	10·5	17·5	10·5	17·5	Mazulferpore	25·5	7·3	25·5	24·3
Krishnagar	34·1	26·5	17·0	17·0	Burhanpore	22·0	23·8	37·0	38·5
Banaghat	6·0	12·0	12·0	12·0	Chupra	25·2	28·8	38·2	13·1
Santipore	23·8	14·0	5·2	5·2	Bhawalpore	30·8	30·4	10·9	30·0
Jessore	12·2	12·2	12·2	12·2	Manuhyr	45·8	38·9	46·1	39·8
Rampore Beaulah	34·2	34·4	57·8	57·8	Purneah	20·8	10·4	17·4	10·4
Darjiling	22·6	32·0	44·5	44·5	Poori	10·5	14·7	12·6	12·6
Dacca	11·7	14·9	15·6	21·4	Total	26·3	22·0	28·6	22·2

It will be seen that last week the highest birth-rate was returned from Rampore Beaulah (57·8), and the lowest from Santipore (5·2).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22·4 per 1,000 of the population. The rate of the week is 10·5 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	43·1	37·4	20·3	32·5	30·8	32·9	22·4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.		6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.
Bardwan	16·8	20·0	19·8	24·4	Narainganj	16·8	16·6	16·6	4·1
Midnapore	17·0	20·1	17·0	18·6	Chittacong	18·8	9·4	14·1	16·6
Hughli and Chinsurah	18·1	37·7	25·6	21·3	Comilla	19·8	27·0	19·3	15·4
Rampur	43·3	33·0	23·4	40·1	Dacca City	26·9	20·4	14·9	19·8
Uttarpara	25·3	23·3	25·3	18·9	Gya	26·1	40·3	39·9	39·6
Howrah	10·9	13·7	13·7	14·9	Arrah	29·9	15·6	35·9	33·5
Bali	14·0	10·8	38·0	35·1	Mazulferpore	30·7	24·3	29·8	15·4
Krishnagar	11·4	22·7	11·4	18·9	Burhanpore	30·3	22·8	34·2	33·0
Banaghat	12·0	6·0	20·0	6·0	Chupra	32·5	39·3	25·2	11·1
Santipore	15·8	10·3	14·0	6·1	Bhawalpore	23·5	15·1	17·3	20·8
Jessore	32·7	43·8	18·4	6·1	Manuhyr	27·1	21·7	30·3	29·9
Rampore Beaulah	18·4	30·4	31·5	38·8	Purneah	10·4	13·9	17·3	6·8
Darjiling	69·3	14·8	14·8	37·0	Poori	48·3	31·5	21·0	14·7
Dacca	13·0	28·5	21·4	22·1	Total	22·4	24·7	23·4	22·4

It will be seen that last week the highest mortality occurred in the town of Serampore (49·1) and the lowest in Narainganj (4·1). No deaths were registered during the week in Santipore town.

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>			<i>Fever.</i>			<i>Other causes.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Arrah	...	4·8	Rampore Beaulash	...	28·9	Serampore	...	15·7
Gya	...	4·1	Arrah	...	25·1	Dacca	...	11·0
Patna City	...	3·9	Gya	...	24·6	Gya	...	10·2
Durbhanga	...	3·9	Darjiling	...	22·2			
			Bali	...	21·1			

From bowel-complaints high mortality occurred in the town of Serampore—mortality 15·7 per 1,000 of population.

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1·6 from cholera, against 2·3 per 1,000 in the preceding week; ·04 from small-pox, against *nil*; 10·4 from fever, against 11; 3·3 from bowel-complaints, against 2·6; ·3 from injury, against the same ratio; and 6·7 from other causes, against 7·2 in the preceding week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

<i>According to Sex.</i>			<i>According to Class.</i>			<i>According to Age.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	22·5	Christians	...	22·4	Under 1 year	...	221·2
Females	...	22·4	Hindus	...	22·2	1 and under 5 years	...	30·8
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	100		Mahomedans	...	23·3	5 " 10 "	...	12·2
						10 " 15 "	...	12·4
						15 " 20 "	...	12·2
						20 " 30 "	...	11·8
						30 " 40 "	...	13·9
						40 " 50 "	...	14·1
						50 " 60 "	...	28·8
						60 years and upwards	...	45·9

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 13th October 1890.

DISTRICTS.	POPULATION.				BIRTHS.				MORTALITY ACCORDING TO—												SEX.		Ratio of male deaths to female population. (the total male and female population, calculated on the basis of every 100 female deaths, being taken as 100.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	NAME OF MUNICIPALITIES.	Males.		Females.		Total.	NUMBER OF—		Ratio of male births to every 100 female births.	DEATHS FROM—						DISEASE.						Ratio of deaths per 1,000 of population per annum in the previous week.		Males.	Females.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Males.	Females.	Total.	Males.		Females.	Total.		Cholera.	Small-pox.	Typhoid.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Typhoid.	Bowel-complaints.	Injury.					Other diseases.	All causes.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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DISTRICTS.		NAMES OF MUNICIPALITIES.		13		14		15										16													
				MORTALITY ACCORDING TO—																											
				Class.										Age.																	
				DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.					RATIO PER 1,000 OF POPULATION PER ANNUM.												
Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.		
Burdwan	Burdwan	13	3				28.5	15.2			3			3	1		4		2	3	226.4			63.0	16.6		36.2		43.4	105.3	
Midnapore	Midnapore	8	4				16.0	28.8			2			1		2	2	1	4		140.0			17.1		14.2	18.8	14.0	100.8		
Hugli	Hugli and Chinsurah	11	2				22.6	16.9			4	1	2		1		2	1	2		250.0	23.4	26.0		20.7		15.2	12.5	40.0		
Serampore	Serampore	23	2				47.4	110.9			2	2	1	4		6	1	3	1	5	148.5	57.6	20.7	93.7		57.9	10.5	46.3	27.2	186.9	
	Utterpara	2					19.5				1									1	323.0									280.0	
Howrah	Howrah	1	14	11			27.5	10.7	25.3			6	5			5	7	1	1	1	151.2	46.9				11.3	18.9	4.4	9.5	13.9	
	Bali		8	2			31.0	79.3			3		1	2				1	1	2	430.9		48.8	87.6				26.9	46.6	142.1	
Huddon	Krishnagar		9	1			25.1	6.3			5	1	1					1	1	1	543.2	31.1	15.1					13.9	24.7	30.1	
	Ranaghat		1				7.1				1										251.2										
	Santipore																														
Jessore	Jessore		1					13.6			1										260.0										
Rajshahye	Rampore Beaulah	7	7				36.7	37.1			2	3	2	1	1	1		2		2	256.3	110.0	84.0	28.9	31.3	12.5		43.4		106.0	
Darjiling	Darjiling	2	2	1			650.0	21.6	35.9			1				2	1		1			80.9				52.0	26.3		213.1		
Dacca	Dacca	16	18				20.6	23.8			6	2	1		3	5	4	2	5	6	164.4	14.1	8.2		21.4	17.6	12.4	54.9	56.0		
	Narainganj		1					6.4				1									91.2										
Chittagong	Chittagong	1	6				9.0	20.4			1	1		1		1		2		92.4	25.4		20.2		11.2		23.0	25.9			
Tipperah	Cumilla		4					28.1			3							1			523.3							39.6			
Patna	Patna City	44	17				19.2	21.6			15	6	4	4	3	3	5	6	4	11	191.0	21.4	13.4	14.4	14.0	8.4	11.2	16.6	14.7	41.4	
Gya	Gya	53	5				45.9	16.2			15	8	3	2	1	3	6	4	5	8	458.8	65.5	22.3	15.5	9.9	10.4	24.5	21.3	63.3	84.8	
Shahabad	Arrah	16	12				26.8	50.3			2	3	3	3	3	5	2	1	2	4	80.7	35.2	26.4	25.3	49.6	23.1	16.3	11.1	33.6	72.1	
Mosufferpore	Mosufferpore	10	2				47.3	12.3			7	1				1	2			2	331.3	12.9				6.1	14.9			42.7	
Durbhanga	Durbhanga	30	12				32.2	35.5			9	6	5	2	1	5	2	3	4	5	300.6	41.0	33.2	16.7	12.9	19.5	9.3	21.0	43.4	61.4	
Saran	Chupra	9	2				11.8	5.7			4	1	1		1	2	1		1		147.4	10.1	8.7		15.0	11.3	6.7		12.6		
Bhagulpore	Bhagulpore	10	13				13.1	39.2			5	5			1	3	3	1		2	345.4	45.0			12.4	14.3	16.8	8.3		28.3	
Moonshyr	Moonshyr	23	4				22.6	16.5			6	8	2		2	4	4	1	1	4	210.1	66.8	14.7		27.5	20.1	23.3	8.2	13.1	65.0	
Purneah	Purneah	1	1				5.7	9.3			1				1						163.7				52.3						
Poori	Poori	7					14.8				1						1	4		1	171.6							13.6	62.6	25.8	
TOTAL		3	323	132			22.4	22.2	23.3			108	55	26	23	19	45	47	34	40	58	231.2	20.5	12.3	13.4	12.2	11.3	13.9	14.1	22.3	45.9

PUBLIC WORKS DEPARTMENT,—BENGAL.
IRRIGATION BRANCH.
IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.
Areas leased for irrigation up to the end of July 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.										Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual leases.						GRAND TOTAL.	During month.	Up to end of month.	During month.	Up to end of month.		
										Kharif.	Rabi.	Sugarcane.	Bhadai.	Hot-weather.	Total.							
ORISSA	Cuttack	Taldanda, 1st reach	C. ft. 1,342	C. ft. 536	C. ft. 140	Acres. 10,817	Acres. 9,270	Acres.	Acres. 10,082	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres. 10,082	Inches. 16'00	Inches. 28'06	Inches. 18'07	Inches. 28'07	* Figures for these will be reported later on.	
		Ditto, 2nd "	806	125	183	97,400	27,171	.....	22,626	.....	.....	.....	.....	.....	.....	22,626	17'02	33'20	15'75	30'50
		Machgong	776	183	183	97,400	27,171	.....	22,626	.....	.....	.....	.....	.....	.....	22,626	15'00	37'70	33'25	37'31
		Kendrapara	1,067	600'40	322'47	37,855	26,016	.....	48,450	.....	270	.....	.....	.....	270	48,720	9'03	16'34	14'08	30'76
		Gohri	372'89	41'44	40'26	1,921	950	.....	2,297	.....	.....	.....	.....	.....	.....	2,297	11'35	18'77	18'43	31'12
		Do extension	649	64	64	2,500	1,450	2,147	2,147	No gauge fixed.					
		Patazoondi	885	250	201	3,036	3,414	.....	10,209	.....	.....	.....	.....	.....	.....	10,209	.....	.....	.....	.....
		High Level, Range I	609	322'89	279'19	18,044	18,035	.....	25,035	.....	56	5	.....	.....	91	25,129	7'35	24'18	7'40	20'95
		Ditto, ditto II	737'16	.....	.....	2,161	2,037	.....	2,465	.....	29	.....	.....	.....	29	2,485	.....	.....	.....	.....
		Ditto, ditto III	727'16	.....	.....	31,724	19,680	.....	34,400	.....	.....	141	.....	.....	141	34,541	7'28	20'11	6'97	21'07
		Total	.....	.....	.....	133,469	120,445	.....	157,826	.....	355	146	.....	.....	631	158,226	.....	.....	.....	.....
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	139,786	.....	5,898	155	.....	.....	6,043	145,799	.....	.....	.....	.....
SOUTH-WEST-ERN.	Midnapore	Midnapore	1,411	766	593	62,644	54,773	65,404	65,404	6'06	30'03	7'62	21'13	Whole month discharging. 21 Days discharging.	
		Panchkoarah	523	79	60	2,676	2,407	.....	2,688	.....	.....	.....	.....	.....	.....	2,688	5'07	26'79	7'24	22'76
		Tidal reaches, Ranges I-II	.....	.....	.....	93	357	.....	336	.....	.....	.....	.....	.....	.....	336	.....	.....	.....	.....
		Total	.....	.....	.....	66,415	57,537	.....	69,438	.....	.....	.....	.....	.....	.....	69,438	.....	.....	.....	.....
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	56,106	.....	.....	.....	.....	.....	.....	56,106	.....	.....	.....	.....
ROSE	Shahabad and Patna and Gya.	Western Main	4,342	1,758	55	9,330	9,412	11,560	1,235	215	309	1,759	17,312	14'04	23'07	15'06	24'13	
		Ruxar	1,245	435	241	41,760	31,527	51,471	1,644	1,063	48	2,564	6,351	56,925	
		Arrah	2,000	1,000	776	92,435	89,170	90,209	7,918	2,212	69	5,688	14,967	145,176	06'25	28'41	11'06	21'07	
		Eastern Main	.....	.....	.....	1,040	624	.....	1,132	.....	.....	.....	6	.....	8	1,140	.....	.....	.....	.....
		Patna	1,466	676	480	33,075	33,137	37,106	5,791	401	84	6,276	44,182	19'50	34'44	11'47	23'03	
		Total	180,261	175,980	192,281	15,690	3,929	201	8,541	28,361	220,842	
		Total of the corresponding period of last year	160,213	46,735	4,401	447	11,570	61,143	223,385	
		Grand Total	380,145	353,783	427,183	15,690	385	6,075	201	8,541	28,892	448,399	
		Grand Total of the corresponding period of last year	160,213	195,961	46,735	5,988	4,566	457	11,570	425,289	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing Quantities of Goods carried during the month of August 1890.

No. of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
83	1. Grain ...	684	15,805	16,489	11,89,467	16,489	11,89,467	
2	2. Cotton ...	.....	35·7	35·7	2,440	35·7	2,440	
86	3. Oilseeds ...	162·11	7,480·66	7,642·77	7,82,800	7,642·77	7,82,800	
90	4. Salt ...	5,988	575·48	6,563·48	6,62,278	6,563·48	6,62,278	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
52	6. Metal ..	379	50	429	72,912	429	72,912	
84	7. Building materials	150·5	180·62	331·12	3,797	331·12	3,797	
40	8. Miscellaneous ...	14,190·59	26,955	41,145·59	52,39,372	41,145·59	52,39,372	
77	9. Fuel ...	2,922·4	145	3,067·4	29,073	3,067·4	29,073	
ft 1	10. Timber ...	247 c. ft.	.....	247 c. ft.	370	247 c. ft.	370	
fts 5	11. Bamboos ...	16 „	4,220 c. ft.	4,236 „	383	4,236 „	283	
84 & rafts.	12. Total ...	{ 24,476·60 & 263 c. ft.	{ 51,227·46 & 4,220 c. ft.	{ 75,704·06 & 4,483 c. ft. }	79,82,892	{ 75,704·06 & 4,483 c. ft. }	79,82,892	
12 & rafts.	13. Total of same month last year	{ 23,177 & 302 c. ft.	{ 49,773 & 4,677 c. ft.	{ 72,950 & 4,979 c. ft. }	70,44,947	{ 72,950 & 4,979 c. ft. }	70,44,947	

	Up.	Down.	Total.		Rs. A. P.
Total number of boats plying cargo No.	1,304	2,260	3,564	Total tollage of month—24 + 25 + 26 ...	36,969 1 0
Empty boats, steamers, &c. No.	970	125	1,095	Total tollage of same month last year ...	37,007 15 6
Total number of boats plying passenger No.	1,708	1,245	2,953	<i>Memorandum of Tollage.</i>	
Empty boats „	182	19	201		
Total registered tonnage, cargo Tons	59,831·63	1,03,608	163,439·63	1. Balance not recovered on the 1st of the month ...	Rs. A. P. 1,557 9 6
Total registered tonnage, passenger Tons	2,174	1,533	3,707	2. Tollage per month ...	36,969 1 0
Ton-mileage	.....	.....	.....	3. Total ...	38,526 10 6
Estimated value of cargo Rs.	39,20,218	40,61,921	79,82,139	4. Amount paid into treasury during the month ...	36,616 0 2
Number of passengers No.	4,123	1,368	5,491	5. Balance due at the end of the month ...	1,910 10 0
Rafts, bamboos C. ft.	16	4,220	4,236		
Do., bullahs „	247	.....	247		
Estimated value of rafts Rs.	372	381	753		
Tollage on boats „	14,982·9·6	21,979·5·6	36,961·15·0		
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts „	1-14-0	5-4-0	7-2-0		
Total tollage on boats per ton-mile* ...	.....	.....	.....
Total tollage on rafts per 100 cubic feet ...	.....	.....	0-2-6		

* Boats in these rivers do not pay per mile.

Abstract for the month of August 1890 as compared with the corresponding month of the previous year.

	1890-91.		1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	36,969 1 0	91,152 0 6	37,007 15 6	89,099 3 9

CALCUTTA,
The 11th October 1890.G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of August 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
204	1. Grain ...	1,876	257	2,133	1,29,277	2,133	1,29,277
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
2	3. Oilseeds ...	15	.....	15	1,265	15	1,265
34	4. Salt ...	.....	303	303	34,800	303	34,800
8	5. Piece-goods ...	.....	20	20	37,700	20	37,700
4	6. Metal ...	64	.....	64	14,020	64	14,000
9	7. Building materials ...	6	15	21	132	21	132
562	8. Miscellaneous ...	356	472	828	2,56,476	826	2,56,351
10	9. Fuel ...	1	158	159	1,963	119	1,488
6 rafts	10. Timber ...	452 c. ft.	.....	452 c. ft.	409	452 c. ft.	409
1 raft	11. Bamboos ...	25 "	.....	25 "	2	25 "	2
833 & 7 rafts	12. Total ...	{ 2,318 & 477 c. ft. }	{ 1,225 ... }	{ 3,543 & 477 c. ft. }	4,76,044	{ 3,501 & 477 c. ft. }	{ 4,75,424 }
594 & 5 rafts	13. Total of same month last year.	{ 973 & 822 c. ft. }	{ 1,211 ... }	{ 2,184 & 822 c. ft. }	1,80,942	{ 2,130 & 822 c. ft. }	{ 1,78,693 }

	Up.	Down.	Total.		Rs. A.
14. Total number of boats plying cargo No.	326	507	833	Total tollage of month—24+25+26 ...	6,117 8
15. Total number of boats plying passenger No.	86	66	152	Total tollage of same month last year ...	4,509 12
16. Total registered tonnage, cargo Tons	4,662	4,013	8,675	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger Tons	881	823	1,704		
18. Ton-mileage ...	183,733	163,138	346,871		
19. Estimated value of cargo Rs.	1,17,940	3,57,693	4,75,633		
20. Number of passengers No.	1,465	1,630	3,095		
21. Rafts, bamboos C. ft.	25	.....	25	1. Balance not recovered on the 1st of the month	4,592 9
22. Do., bullahs "	452	.....	452	2. Tollage per month ...	6,117 3
23. Estimated value of rafts Rs.	411	.....	411	3. Total ...	10,709 15
24. Tollage on boats "	3,236-5-3	2,873-7-0	6,109-12-3	4. Amount paid into treasury during the month	5,283 14
25. Compounded tollage on boats Rs.	.....	3-8-0	3-8-0	5. Balance due at the end of the month	5,425 15
26. Tollage on rafts "	3-15-0	.....	3-15-0		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-3		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-2		

* The difference of Rs. 728-1-0, being the tollage paid by Messrs. Hoare, Miller & Co., for February 1890, adjusted in April 1890, is now written back as per Examiner of Public Works Accounts, Bengal's No. 8217 of 8th September 1890.

Abstract for the month of August 1890 as compared with the corresponding month of the previous year.

	1890-91.		1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	6,117 3 3	29,766 12 6	4,509 12 9	25,056 5

CALCUTTA,
The 11th October 1890.

G. A. G. SHAW, N.
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of August 1890.

Number of Boats or Rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupies.	Tons.	Rupies.	
410	1. Grain ...	5,802	.....	5,802	5,65,484	5,802	5,65,484	• For details, see next page.
2	2. Cotton ...	9	.....	9	4,750	9	4,750	
41	3. Oilseeds ...	596	33	629	74,862	629	74,862	
280	4. Salt ...	562	4,751	5,313	4,83,518	5,313	4,83,518	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	...	.....	.....	.....
77	7. Building materials ...	1,779	67	1,846	28,404	1,846	28,404	
1,355	8. Miscellaneous* ...	6,572	1,107	7,679	8,37,932	7,679	8,37,932	
538	9. Fuel ...	9,184	3,007	12,191	89,749	12,191	89,749	
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
2,703	12. Total ...	24,504	8,965	33,469	20,84,699	33,469	20,84,699	
2,647 raft	13. Total of same month last year.	{ 24,813 & 500 c. ft.	6,934	{ 31,747 & 500 c. ft. }	21,26,970	{ 31,747 & 500 c. ft. }	21,26,970	
		Up.	Down.	Total.				
Total number of boats plying cargo No.		2,279	424	2,703	Total tollage of month— 24+25+26 ...			Rs. A. P. 21,069 15 9
Empty ...		1,354	518	1,872				
Total number of boats plying passenger No.		459	7	465	Total tollage of same month last year ...			20,621 2 6
Total registered tonnage, cargo Tons		78,580	21,804	1,00,384	<i>Memorandum of Tollage.</i>			
Total registered tonnage, passenger Tons		816	17	833				
Ton-mileage ...		648,260	218,040	866,300				Rs. A. P.
Estimated value of cargo Rs.		14,11,779	6,72,920	20,84,699	1. Balance not recovered on the 1st of the month ...			651 3 6
Number of passengers No.		1,689	60	1,749	2. Tollage per month ...			21,069 15 9
Rafts, bamboos C. ft.		.....	.....	.....	3. Total ...			21,721 3 3
Do., bullahs "		.....	.....	.....	4. Amount paid into treasury during the month ...			20,459 5 9
Estimated value of rafts Rs.		.....	.....	.....	5. Balance due at the end of the month ...			1,261 13 6
Tollage on boats "		15,723-9-9	5,346-6-0	21,069-15-9				
Compounded tollage on boats Rs.		.....	.....	.....	
Tollage on rafts "		.....	.....	.....	
Total tollage on boats per ton-mile Rs.		.....	.....	0-0-4-66				
Total tollage on rafts per 100 cubic feet Rs.		.....	.....	.....	

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
204	(a) Jute ...	2,378	.....	2,378	1,99,725	2,378	1,99,725	
59	(b) Jaggery ...	530	26	556	62,300	556	62,300	
6	(c) Sugar ...	37	.....	37	9,450	37	9,450	
3	(d) Tobacco ...	14	1	15	2,975	15	2,975	
290	(e) Fish ...	70	3	73	20,365	73	20,365	
16	(f) Hides ...	27	.....	27	6,152	27	6,152	
97	(g) Poultry ...	21	.....	21	17,246	21	17,246	
36	(h) Hay and straw ...	324	.....	324	6,803	324	6,803	
55	(i) Oil ...	.....	883	883	1,23,625	883	1,23,625	
56	(k) Earthenware ...	131	.....	131	1,834	131	1,834	
533	(m) Other miscella- neous ...	3,040	194	3,234	3,87,457	3,234	3,87,457	
1,355	Total Miscellaneous...	6,572	1,107	7,679	8,37,932	7,679	8,37,932	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of August 1890.

DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
	Quantity—Tons.		Value.	Quantity.	Value.	
	Up.	Down.	Total.	Tons.	Rupees.	
1. Grain ...	5,680	.....	5,680	5,680	4,99,573	* For details, see next page.
2. Cotton ...	38	.....	38	38	20,235	
3. Oilseeds ...	759	.....	759	759	75,625	
4. Salt ...	548	693	1,241	1,241	1,12,937	
5. Piece-goods ...	.....	.....	.....	.....	.....
6. Metal ...	.....	.....	.....	.....	.....
7. Building materials ...	5,289	.....	5,289	5,289	20,963	
8. Miscellaneous* ...	3,203	45	3,248	3,248	3,40,439	
9. Fuel ...	2,557	.....	2,557	2,557	19,458	
10. Timber ...	120 c. ft.	625 c. ft.	745 c. ft.	745 c. ft.	1,862	
11. Bamboos ...	125 c. ft.	.....	125 "	125 "	15	
12. Total ...	{ 18,074 & 245 c. ft.	{ 738 & 625 c. ft.	{ 18,812 & 870 c. ft. }	{ 18,812 & 870 c. ft. }	{ 10,91,107 }	
13. Total of same month last year ...	{ 15,218 & 294 c. ft.	{ 443 }	{ 15,661 & 294 c. ft. }	{ 15,661 & 294 c. ft. }	{ 8,96,863 }	
Total number of boats plying cargo ... No.	2,758	100	2,858	Total tollage of month— 24+25+26 ...		Rs. A. P. 8,177 11 6
Empty " ...	1,061	97	1,158	Total tollage of same month last year ...		7,239 3 0
Total number of boats plying passenger ... No.	326	7	333	Memorandum of Tollage.		
Total registered tonnage, cargo ... Tons	51,714	2,230	53,944			
Total registered tonnage, passenger ... Tons	647	15	662			
on-mileage ...	415,793	35,680	451,473			
Estimated value of cargo Rs.	10,18,696	70,534	10,89,230			
Number of passengers No.	2,347	41	2,388			
Rafts, bamboos C. ft.	125	.....	125			
Do., bullahs "	120	625	745			
Estimated value of rafts Rs.	315	1,562	1,877			
Tollage on boats "	7,619-0-6	550-5-0	8,169-5-6			
Unrounded tollage on boats ... Rs.	.....	.....	.....
Tollage on rafts "	0-14-0	7-8-0	8-6-0			
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-47			
Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-15-4			
				1. Balance not recovered on the 1st of the month ...		304 3 9
				2. Tollage per month ...		8,177 11 6
				3. Total ...		8,481 15 3
				4. Amount paid into treasury during the month ...		7,978 11 3
				5. Balance due at the end of the month ...		503 4 0

**ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.**

Number of loads or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
43	(a) Jute ...	265	...	265	22,230	265	22,230
61	(b) Jaggery ...	429	13	442	55,687	442	55,687
...	(c) Sugar ...	.....	.....	.....	.....	.....	.....
14	(d) Tobacco ...	116	22	138	26,950	138	26,950
168	(e) Fish ...	9	2	11	3,136	11	3,136
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....
12	(g) Poultry ...	7	.....	7	1,590	7	1,590
183	(h) Hay and straw...	428	.....	428	9,000	428	9,000
36	(j) Oil ...	308	.....	308	43,125	308	43,125
100	(k) Earthenware ...	41	.....	41	601	41	601
219	(m) Other miscellane- ous.	1,600	8	1,608	1,78,120	1,608	1,78,120
836	Total Miscellaneous...	3,203	45	3,248	3,40,439	3,248	3,40,439

**ABSTRACT FOR THE MONTH OF AUGUST 1890, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

	TRAFFIC, 1890-01.				TRAFFIC, 1889-90.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Calcutta and Eastern Canals ...	21,069	15 9	91,064	7 6	20,621	2 6	99,736	15 0
Tolly's Nullah ...	8,177	11 6	40,496	3 0	7,239	3 0	33,626	0 6
Total ...	29,247	11 3	1,31,560	10 6	27,860	5 6	1,33,362	15 6

CALCUTTA,
The 11th October 1890.

G. A. G. SHAW,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 11th October 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 11TH OCTOBER 1890.			WEEK ENDING SATURDAY, THE 12TH OCTOBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	544	2,201	1,270	388	1,01,935	1,040
Jute ...	413	2,02,826	3,599	159	84,460	1,442
Firewood ...	147	80,925	1,011	207	1,06,950	1,870
Other articles ...	1,202	3,52,275	3,716	924	1,72,415	2,303
Total ...	2,306	7,18,225	9,626	1,678	4,65,750	6,815

Nalhati State Railway.

*Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State
Railway during the month of August 1890, as compared with the same month of the previous year.*

STAPLES.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal ...	1,184	...	294	...	1,184	294	...	...
Cotton, raw ...	7	...	...	...	7	...	...	...
Cotton piece-goods—	...	...	...	...	...	...	...	...
1.—European ...	13	...	...	...	13	...	...	13
Grains—	...	...	...	...	...	...	...	...
2.—Rice ...	60	27	106	25	86	191	105	...
3.—Gram ...	...	...	...	...	...	...	...	...
4.—Others ...	48	1	69	1	40	70	21	...
Hides and skins—	...	...	...	...	...	...	...	...
1.—Hides of cattle—	...	...	...	...	...	...	...	...
a.—Dressed ...	...	...	...	4	...	4	4	...
2.—Skins of sheep, goats and small animals—	...	...	...	...	...	...	...	...
a.—Dressed ...	...	1	...	...	1	...	...	1
Jute—	...	...	...	...	...	...	...	...
2.—Gunny-bags and cloths ...	4	...	1	...	4	1	...	3
Laps—	...	...	...	...	...	...	...	...
1.—Stick ...	...	...	...	1	...	1	1	...
Metals—	...	...	...	...	...	...	...	...
2.—Iron ...	1	...	...	...	1	...	...	1
4.—Others ...	3	3	...	2	6	2	...	4
Ons—	...	...	...	...	...	...	...	...
1.—Castor ...	1	...	3	...	1	3	2	...
2.—Kerosine ...	3	...	5	2	3	7	4	...
3.—Others ...	3	...	...	...	3	...	...	3
Oilseeds—	...	...	...	...	...	...	...	...
2.—Mustard and rape ...	41	...	107	...	41	107	66	...
Provisions—	...	...	...	...	...	...	...	...
1.—Ghee ...	5	...	1	...	5	1	...	2
3.—Others ...	3	4	3	3	6	6	...	...
Railway plant and rolling-stock	21	16	19	0	40	23	...	17
Salt ...	69	...	81	...	60	61	12	...
Silk, raw—	...	...	...	...	...	...	...	...
2.—Indian ...	1	33	1	0	34	10	...	24
Silk piece-goods—	...	...	...	...	...	...	...	...
2.—Indian ...	...	2	...	...	2	...	...	2
Sugar—	...	...	...	...	...	...	...	...
1.—Drained ...	10	...	...	...	10	...	...	10
2.—Undrained ...	12	...	23	...	12	23	11	...
Tobacco ...	4	...	...	...	4	...	...	4
Timber ...	...	...	17	2	...	19	...	...
Other articles of merchandise ...	118	14	57	16	132	73	...	...
Total ...	1,611	101	866	73	1,712	918	247	1,941

INCREASE.

Tons.

Grains—
(2) Rice ... 105
Due to greater export from intermediate stations.
(4) Others ... 21
Due to greater export of paddy from intermediate stations.

	Tons.
Oil-seeds—	
(2) Mustard and rape ...	66
Due to high demand.	
Salt ...	12
Due to greater import.	
Sugar—	
(2) Undrained ...	11
Due to high demand.	
Timber ...	19
Due to there being no traffic under this head last year.	
DECREASE.	
Coal ...	891
Due to less import owing to the stoppage of goods traffic on account of flood.	
Cotton piece-goods—	
(1) European ...	18
Due to less import owing to the stoppage of goods traffic on account of flood.	
Railway plant and material ...	17
Due to less import owing to the stoppage of goods traffic on account of flood.	
Silk, raw—	
(2) Indian ...	24
Due to less import owing to the stoppage of goods traffic on account of flood.	
Sugar—	
(1) Drained ...	10
Due to less import owing to the stoppage of goods traffic on account of flood.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	215,179	2,35,474 8 0	10,45,540 20	4,55,316 1 0	17,383 3 10	7,08,173 12 10	64,319	78,814	143,133
Or per centile of railway ...	154 5 9	154 5 9	.....	298 7 6	11 6 4	464 3 7	.....	.....	.....
For previous 12 weeks of half-year ...	2,801,416	28,33,150 7 0	2,39,42,825 20	53,13,316 6 6	2,07,445 15 10	53,53,913 13 4	805,240	984,811	1,790,051
Total for 13 weeks ...	3,070,595	30,68,624 15 0	2,53,88,367 10	57,68,632 7 6	2,24,829 3 8	60,02,080 10 2	869,559	1,073,623	1,943,182
COMPARISON.									
Total for corresponding week of previous year ...	243,453	2,48,949 11 0	14,54,336 20	3,50,716 13 0	16,220 1 10	6,16,963 9 10	66,044	64,622	130,666
Or per centile of railway corresponding week of previous year ...	163 3 1	163 3 1	.....	239 14 5	10 10 11	408 12 8	.....	.....	.....
Total to corresponding date of previous year ...	3,548,780	33,42,210 8 1	2,91,29,313 10	61,13,951 9 5	2,31,576 11 4	66,67,736 12 10	914,672	1,118,336	2,033,008

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 5TH OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 4TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 4TH OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	6,15,963	404	1,525½	7,08,174	464	1,525½	2,17,14,400	597	1,525½	2,01,81,017	400	.....	19,31,600

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,300	8,850 11 0	21,265 30	1,854 6 0	24 4 0	10,733 5 0	2,447	489	2,936
per mile of railway ...	318	154 11 9	372 0	32 6 8	0 7 11	187 10 4	.....	.....	.....
of previous 13 weeks of half-year ...	*122,917	*62,087 14 0	*4,06,741 10	*20,023 5 0	*472 1 0	88,552 4 0	13,391	7,207	20,598
Total for 14 weeks ...	136,417	70,938 9 0	4,28,007 0	27,878 11 0	600 5 0	89,315 9 0	15,840	7,720	23,560
COMPARISON.									
Total for corresponding week of previous year ...	10,593†	5,655 8 8	72,364 10	1,700 8 0	32 4 0	7,394 0 5	1,919	1,161	3,080
per mile of railway corresponding week of previous year ...	186†	98 13 11	1,235 10	29 13 4	0 9 0	129 4 3	.....	.....	.....
Total to corresponding date of previous year ...	197,019	1,10,401 15 6	6,89,853 0	31,230 3 0	800 7 0	1,42,381 9 0	19,495	10,090	29,585

* Deducted No. of passengers 3,009 and Rs. 1,946 }
 † Ditto Mds. 1,813 & added .. 48 } on account of differences between the approximate and audited returns to week ended 30th August 1890.
 ‡ Ditto .. 66 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 5TH OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 4TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 4TH OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
57½	Rs. 7,394	Rs. 129	57½	Rs. 10,733	Rs. 186	57½	Rs. 2,55,277	Rs. 166	57½	Rs. *2,30,060	Rs. 146	.....	Rs. 30,217

* Deducted Rs. 1,964 on account of difference between the approximate and audited figures to week ended 30th August 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,631	3,405 1 0	5,831 0	317 4 0	4 0 0	3,716 11 0	934	44	978
per mile of railway ...	.....	157 1 3	.....	9 12 3	0 3 2	167 0 8	.....	.....	.....
of previous 13 weeks of half-year ...	*511,354	*51,108 5 0	*90,069 10	*2,554 5 0	*265 10 0	53,728 7 0	11,694	606	12,300
Total for 14 weeks ...	225,882	54,663 9 0	62,920 10	2,771 9 0	70 0 0	57,445 2 0	12,618	649	13,267
COMPARISON.									
Total for corresponding week of previous year ...	21,577†	5,624 12 0	5,614 30	194 9 0	5 15 3	5,825 5 0	923	43	966
per mile of railway corresponding week of previous year ...	.....	252 13 10	.....	8 11 11	0 4 3	261 13 0	.....	.....	.....
Total to corresponding date of previous year ...	249,302†	60,067 12 7	80,103 0	2,674 8 0	67 4 6	62,439 4 1	12,940	653	13,593

* Deducted No. of passengers 6,063 and Rs. 2,214 }
 † Ditto Mds. 12 and .. 9 } on account of differences between the approximate and audited returns to week ended 30th August 1890.
 ‡ Ditto .. 10 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 5TH OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 4TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 4TH OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
22½	Rs. 5,825	Rs. 261	22½	Rs. 3,717	Rs. 167	22½	Rs. 1,45,006	Rs. 241	22½	Rs. *1,42,293	Rs. 237	.....	Rs. 2,713

* Deducted Rs. 2,220 on account of difference between the approximate and audited figures to week ended 30th August 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 27th September 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	127,390	65,480 0 0	7,50,800 0	2,01,350 0 0	25,450 0 0	2,26,800 0 0	18,036	36,408	54,444
Or per mile of railway ...	167	86 0 0	984 0	268 0 0	33 0 0	301 0 0	...	...	...
For previous 12 weeks of half-year* ...	1,628,658	6,50,548 0 0	66,01,981 0	16,88,703 0 0	1,62,220 0 0	24,07,471 0 0	204,709	390,708	595,417
Total for 13 weeks ...	1,756,048	7,22,028 0 0	72,62,481 0	17,03,053 0 0	1,87,700 0 0	27,03,751 0 0	223,405	417,236	640,641
COMPARISON.									
Total for corresponding week of previous year ...	147,506	58,754 0 0	8,26,465 0	3,03,420 0 0	31,704 0 0	3,35,124 0 0	22,652	57,311	80,963
Per mile of railway corresponding period of previous year ...	197	119 0 0	1,106 0	372 0 0	41 0 0	413 0 0	...	...	...
Total to corresponding date of previous year ...	1,790,779	7,04,978 0 0	81,03,514 0	19,12,128 0 0	1,03,071 0 0	28,50,177 0 0	201,228	598,754	799,982

* Audited up to week ending 9th and train mileage up to 30th August 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
767	Rs. 3,21,878	Rs. 425	763	Rs. 2,95,310	Rs. 397	710	Rs. 20,15,619	Rs. 272	759	Rs. 25,85,439	Rs. 288	Rs. 60,820	Rs. ...

* Audited up to week ending 9th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	21,410	8,870 0 0	55,340 0	5,476 0 0	80 0 0	13,800 0 0	3,075	1,991	5,066
Or per mile of railway ...	171	55 0 0	443 0	44 0 0	...	90 0 0	...	...	...
For previous 12 weeks of half-year* ...	296,574	91,499 0 0	4,03,444 0	29,052 0 0	2,393 0 0	1,22,944 0 0	42,360	24,901	67,261
Total for 13 weeks ...	317,984	98,569 0 0	4,58,824 0	34,522 0 0	2,443 0 0	1,35,334 0 0	45,975	26,893	72,868
COMPARISON.									
Total for corresponding week of previous year ...	28,020	12,510 0 0	90,984 0	9,897 0 0	130 0 0	22,537 0 0	3,537	3,591	7,128
Per mile of railway corresponding period of previous year ...	224	100 0 0	800 0	79 0 0	1 0 0	180 0 0	...	...	...
Total to corresponding date of previous year ...	338,546	1,17,497 0 0	5,38,105 0	78,208 0 0	2,562 0 0	1,98,257 0 0	45,346	23,014	68,360

* Audited up to 9th August 1890. Train mileage audited up to 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
125	Rs. 22,537	Rs. 180	123	Rs. 12,390	Rs. 99	125	Rs. 2,78,104	Rs. 116	125	Rs. 2,00,942	Rs. 93	Rs. ...	Rs. 77,162

* Audited up to week ending 9th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Traffic for the week ...	15,820	3,680 0 0	22,060 0	2,210 0 0	70 0 0	7,900 0 0	2,414	706	3,120
per mile of railway ...	178	42 0 0	257 0	25 0 0	1 0 0	92 0 0	.....	.....	.....
previous 12 weeks of half-year ...	175,812	54,399 0 0	1,46,785 0	13,217 0 0	3,726 0 0	71,242 0 0	22,312	2,660	24,972
Total for 12 weeks ...	191,132	60,019 0 0	1,68,865 0	15,427 0 0	3,796 0 0	72,242 0 0	24,726	2,966	27,692
COMPARISON.									
Traffic for corresponding week of previous year ...	16,427	4,268 0 0	28,795 0	2,412 0 0	460 0 0	10,240 0 0	2,847	1,004	3,851
per mile of railway corresponding ...	191	74 0 0	330 0	40 0 0	5 0 0	119 0 0	.....	.....	.....
period of previous year ...	192,869	60,268 0 0	2,56,144 0	18,107 0 0	3,080 0 0	51,429 0 0	22,351	11,765	34,116

* Audited up to week ending 9th August 1890.
Train mileage ditto ditto 30th August 1890

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Rs.	Rs.
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
10,240	119	86	7,900	92	86	1,55,726	70	86	*1,61,103	72		5,365	.....

* Audited up to week ending 9th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Traffic for the week ...	2,700	930 0 0	23,410 0	1,570 0 0	10 0 0	2,310 0 0	590	170	760
per mile of railway ...	99	34 0 0	859 0	58 0 0	1 0 0	85 0 0	.....	.....	.....
previous 12 weeks of half-year ...	24,616	12,328 0 0	90,195 0	4,319 0 0	188 0 0	17,826 0 0	6,432	4,574	11,006
Total for 12 weeks ...	27,316	13,258 0 0	1,13,605 0	6,189 0 0	198 0 0	19,703 0 0	7,022	5,044	12,066
COMPARISON.									
Traffic for corresponding week of previous year ...	2,700	1,414 0 0	7,463 0	530 0 0	17 0 0	1,961 0 0	590	440	1,030
per mile of railway corresponding ...	120	52 0 0	274 0	19 0 0	1 0 0	72 0 0	.....	.....	.....
period of previous year ...	29,323	14,542 0 0	1,24,328 0	8,225 0 0	612 0 0	22,179 0 0	7,468	4,901	12,369

* Audited up to week ending 9th August 1890.
Train mileage ditto ditto 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Rs.	Rs.
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
1,961	72	27½	2,310	85	27½	69,728	69	27½	*45,71	65		.....	3,043

* Audited up to week ending 9th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 27th September 1890, on 601 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week (on 601 miles open) ...	80,620	Rs. 32,670	Mds. 2,07,830	Rs. 30,400	Rs. 6,400	Rs. 69,570	11,810	11,830	23,640
Or per mile of railway ...	134.14	47.14	345.77	44.28	10.65	116.68	19.65	19.71	39.36
For previous 11 weeks of half-year ...	850,039	3,20,869	29,99,174	8,47,100	75,467	7,48,986	130,983	132,187	263,170
Total for 12 weeks ...	(a) 930,659	3,68,929	(b) 32,07,004	8,77,700	* 81,867	8,18,550	151,093	153,317	304,410
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year ...	73,748	27,002	2,11,003	17,987	7,146	52,135	10,800	11,193	21,993
Per mile of corresponding week of previous year on 600 miles open ...	119.03	45.00	351.67	29.98	11.91	86.86	18.00	18.66	36.66
Total to corresponding date of previous year ...	888,052	3,43,794	37,00,025	4,12,857	105,995	662,646	135,728	171,978	207,706

* Steam-boat earnings for the week, Rs. 4,820.
Ditto to date, .. 61,160.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 25TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 25TH SEPTEMBER 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
378	Rs. 60,570	100.68	370	Rs. 52,135	80.33	670	Rs. 21,42,230	124.34	640	Rs. 21,78,200	129.61	.....	.....

(a) Excludes 34,004 passengers, being traffic common to B. and N.-W. and T. Railways.
(b) Do. 1,44,594 maunds, ditto ditto ditto.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 13th September 1890	...	...	11,276
Corresponding period of 1889	...	...	11,708
Decrease	...	...	432
Receipts per mile for week ending 13th September 1890	...	...	Rs. 221 1 3
Corresponding period of 1889	...	...	229 7 4
Decrease	...	...	8 6 1
Receipts from 1st July to 13th September 1890	...	...	86,787
Corresponding period of 1889	...	...	1,17,183
Decrease	...	...	80,346

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 20th September 1890	...	...	14,404
Corresponding period of 1889	...	...	8,756
Increase	...	...	5,647
Receipts per mile for week ending 20th September 1890	...	...	Rs. 282 6 11
Corresponding period of 1889	...	...	171 11 5
Increase	...	...	110 11 6
Receipts from 1st July to 20th September 1890	...	...	1,01,191
Corresponding period of 1889	...	...	1,25,890
Decrease	...	...	24,699

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

						Rs.
Approximate earnings for week ending 27th September 1890	...	...	...	...	...	14,171
Corresponding period of 1889	...	...	...	...	...	14,109
Increase	...	...	...	...	...	62
						Rs. A. P.
Receipts per mile for week ending 27th September 1890	...	...	...	...	...	277 13 10
Corresponding period of 1889	...	...	...	...	...	276 10 6
Increase	...	...	...	...	...	1 3 4
Receipts from 1st July to 27th September 1890	...	...	...	...	...	1,15,362
Corresponding period of 1889	...	...	...	...	...	1,40,000
Decrease	...	...	...	...	...	24,638



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, OCTOBER 22, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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REPORT ON THE ECONOMIC AND ART SECTION OF THE INDIAN MUSEUM FOR THE YEAR 1889-90.

REVENUE DEPARTMENT—MISCELLANEOUS.

Darjeeling, the 13th October, 1890.

RESOLUTION.

READ—

The Report of the Trustees of the Indian Museum on the Economic and Art Section of the Indian Museum for the year 1889-90.

The Report of the Assistant Curator of the Economic and Art Section of the Indian Museum was submitted to Government with remarks by the Trustees of the Indian Museum on the 6th September 1890.

2. As in previous years, the work was mainly confined to preserving specimens from the influences of climate and the ravages of insects, the insecure condition of the present building and the insufficient number of show cases making this a difficult task. In spite of every care, some samples of woollen goods and raw materials were so damaged as to be unfit for display. It is considered that air-tight glass-cases, with the air inside fully impregnated with naphthaline, afford the only means of securing efficient protection, and provision for such cases has accordingly been made in the estimate of fittings for the new building now under construction. The attention of the Public Works Department will be drawn to the recommendation of the Trustees that the completion of this building be expedited.

3. The Lieutenant-Governor is glad to notice that the arrangements referred to in last year's Resolution, as to the exchange of specimens between the Economic Museum and the Jaipur Museum, have been effected. An interesting series of specimens was received from Jaipur, and the return collection is reported to be almost ready for despatch. A number of valuable specimens, not represented

before, was added to the Artware Court during the year, partly by donation and partly by purchase. Additions were also made to the exhibits in the Ethnological and Economical Courts. The total number of specimens in the register of each Court stood as follows on the 31st March, 1890 :—

		Last number on 31st March, 1889.	Last number on 31st March, 1890.	Number of articles damaged during 1889-90.	Net increase during the year.
Art-ware Court	...	10,090	10,526	<i>Nil</i>	436
Economic "	...	16,816	16,954	13	123
Ethnology	...	6,972	7,145	<i>Nil</i>	173

4. The most important works in which the Assistant Curator and his staff were engaged during the year were (1) the formation of a large and exhaustive collection of the fibres and mat and paper grasses of India for distribution to several institutions in the United Kingdom; and (2) the formation of comprehensive collections of the whole of the economic products of India for the Imperial Institute, London, the Indian Museum, and any other museums in India which Provincial Governments may recommend, and for which they may be prepared to purchase a set of specimens. No actual collecting was done during the year, but tabular statements of all the products required from the various provinces during 1890-91 were prepared, and the preliminary correspondence issued. It is proposed to make the collections *pari passu* with Dr. Watt's Dictionary of the Economic Products of India, which will thus form an analytical and descriptive catalogue of the specimens. The proposal has the approval of the Lieutenant-Governor.

5. On the recommendation of the Bengal Committee of the Colonial and Indian Museum, who brought their work to a close during the year, a sum of Rs. 7,025, being the balance of the sale proceeds of exhibits, was placed at the disposal of the Trustees for the purchase of good specimens of Bengal art-ware to form a collection under the name of the "Asanullah and Swarnamayi" collection in commemoration of the liberal donations of the Nawab Asanullah of Dacca and the Maharani Swarnamayi of Cossimbazar towards the cost of the Bengal Screen.

6. The Lieutenant-Governor notices with pleasure that the arrangement under which the accounts of the Economic and Art Museum were transferred to the Trustees' Office on the 1st May 1890 is working well.

7. The lamented death of Mr. E. F. T. Atkinson, C.S., C.I.E., Chairman of the Trustees, which occurred in September, 1890, has deprived the Government and the Board of Trustees of the services and advice of an enthusiastic worker in the causes to which the Indian Museum is devoted. Sir Stuart Bayley desires to record his appreciation of the late Mr. Atkinson's zeal and labours in the pursuit of scientific knowledge.

By order of the Lieutenant-Governor of Bengal,

C. E. BUCKLAND,

Offg. Secretary to the Government of Bengal.

RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE
CHOTA NAGPORE DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Calcutta, the 16th October, 1890.

RESOLUTION.

READ—

The General Administration Report of the Chota Nagpore Division for the year 1889-90.

The report, submitted by Mr. Grimley, who was in charge of the Division throughout the year, deals fully with all the prescribed topics, and it is necessary to touch in this Resolution only on some points to which the attention of the Lieutenant-Governor has been specially attracted. The price of food was high during the year, a condition favourable to the ryot in his character of a producer, but injurious to such labourers as are paid in money. The yield of the different crops was good, with the result that there was a large increase in the export trade. In the Lohardugga district there has been a distinct rise in the rate of wages, unskilled workmen now getting from 2 annas to 2 annas 3 pias a day against 1 anna 9 pias to 2 annas in 1887-88, and a similar tendency is observed in Manbhoom. Public health was better than in the preceding year, and there were also some minor causes at work to improve temporarily or permanently the condition of the masses, which in this Division is generally the reverse of satisfactory. The Commissioner writes:—

“In Manbhoom the opening of the Bengal-Nagpur Railway enabled the cultivators to take advantage of the high prices ruling in the neighbouring districts and to export their surplus stocks of rice, oilseeds, &c., at a substantial profit, while the excellent outturn of the lac crop materially benefited the people of Jhalda, Bagmoondi, and the rest of the western parts of the district. In Singbhoom the construction of the railway brought a great deal of money into the district, a good portion of which was earned by people of all classes from all parts of the district. In Hazaribagh, apart from the general prosperity consequent on the good harvests, the people of Gawan, Koderma, Baraganda and Giridih and their neighbourhood found ample work in the numerous mica, copper and coal mines at comparatively high wages. In Lohardugga the ‘opening of the Bengal-Nagpur lines in the Division, the operations of the public works and road cess departments on a large scale within the district, extensive development of trade at the various centres and the local tea-gardens, have increased the demand for labour, and the consequent rise in the price of wages has greatly ameliorated the condition of the poorer classes.’ The working of the Anglican and German Missionaries has also brought on a great change among the aboriginal races who at present constitute an important section of the population of the district. Much improvement is to be observed in their mode of building houses, and they take greater care to keep themselves neat and clean, and have a general tendency to give up some of their primitive habits and ways of living. A great advance is also noticeable in their style of clothing. The condition of the non-Christians too, as regards dress and dwelling-houses, has made a visible improvement within the past few years.”

2. In this Division considerable importance attaches to mining operations, and it should be the object of all Government officers having the charge of estates, or being otherwise in a position of authority in regard to such matters, to afford every facility for prospecting, while refraining from making any settlement of permanent mining rights otherwise than in accordance with the prescribed rules. An economic survey is now being made of the Jharia coal-fields, and leases were granted for mica prospecting, under rules lately framed by this Government for the purpose, over 190 acres out of 370 acres applied for. The applications in regard to the balance should be promptly disposed of, if this has not been done already. In the principal coal mines the output was 564,971 tons against 630,527 tons in the preceding year; in the mica mines 1,333 maunds; in refined copper 320 tons against 218. In regard to gold the Commissioner writes:—

“In Lohardugga the aborigines of Sonapet have for a long time obtained small quantities of gold by washing the sand of the Sona river, but the quantities gathered have never been sufficient to pay them anything more than their daily wages. The Sonapet valley is almost entirely encircled by a belt of hills, and some of the reefs in these hills have been examined by mining geologists, and the favourable reports submitted have encouraged several persons to take up tracts of land with the view of forming mining companies. The Bengal-Nagpur Railway has brought the district of Singbhoom within reach of Calcutta and into prominent notice in commercial circles. Syndicates have been formed there with

“In Lohardugga the aborigines of Sonapet have for a long time obtained small quantities of gold by washing the sand of the Sona river, but the quantities gathered have never been sufficient to pay them anything more than their daily wages. The Sonapet valley is almost entirely encircled by a belt of hills, and some of the reefs in these hills have been examined by mining geologists, and the favourable reports submitted have encouraged several persons to take up tracts of land with the view of forming mining companies. The Bengal-Nagpur Railway has brought the district of Singbhoom within reach of Calcutta and into prominent notice in commercial circles. Syndicates have been formed there with

the view of exploiting its mineral resources, and there are at the present time several important applications pending before me for licenses to prospect for minerals. In fact, signs are not wanting that this district with its mineral and forest products has a great future before it."

3. Of chief importance in connexion with the subject of public feeling is an agrarian agitation which has arisen among the Kols and which has connected itself with a singular religious development. The Kols have for many years shown signs of discontent with their existing condition, especially in relation to the claims made upon them by landlords for excessive rents and for unpaid labour. At one time the feeling induced a few of them to put forward political claims which had to be unhesitatingly rejected. During the past year the dissatisfaction with the landlords' demands showed itself in some lawlessness, not of a very aggravated character, and in frequent refusals to pay rent or to give unpaid labour—symptoms which have caused the landlord class considerable uneasiness. A body of Jesuit missionaries have recently been extending their operations in the Division and have warmly taken up the cause of their Kol converts. Under this influence the number of conversions has been remarkable, though, as Mr. Grimley points out, in many cases "the enquiry established the fact that the conversions to Christianity were effected by the rough and simple process of depriving the new convert of his topknot, and also that those who allowed themselves to be thus easily converted to the new faith did so in the full hope and belief that they would be thereby enabled to escape from the exactions of their landlords, whether in the shape of rent, cesses or predial services." With the consent of the Government the Commissioner issued a proclamation specifying the amount of services which had been customary in past times and warning the zemindars to demand nothing in excess, at the same time urging the ryots to yield what was due. Other remedial measures of a more permanent character were discussed at a conference at Ranchi, and the Lieutenant-Governor is now awaiting a report from the Commissioner on them.

4. The thanks of the Lieutenant-Governor are given to Mr. Grimley for his careful administration of the Division during the year. Colonel Garbett, Colonel Lillingston, and Colonel Samuells all worked well as Deputy Commissioners, and Mr. Baker, of Manbhoon, showed administrative ability of an exceptional degree. The remarks of Deputy Commissioners as to their subordinate officers are not included in the Commissioner's report. This omission should now be supplied.

By order of the Lieutenant-Governor of Bengal,

C. E. BUCKLAND,

Offg. Secretary to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 18th October 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.	
BENGAL.				
Western Districts.				
BURDWAN DIV.	1 Burdwan Oct. 18, '90	8.37	Weather—seasonable. Prospects of <i>aman</i> and sugarcane good. Prices of common rice—	
	Culina ...	2.37		
	Cutwa ...	5.52		
			Srs. Burdwan ... 16 Culina ... 15 Cutwa ... 14½ } per rupee.	
	2 Bankoora .. 18, '90	4.76	Weather—cloudy and rainy with occasional heavy showers. Copious rainfall during the week. Prospects of crops good. Common rice selling at 19 seers per rupee at the Sudder station and at Bishenpore.	
	3 Birbhum .. 18, '90	5.56	Heavy rain for three days of the week. It is beneficial to crops, which are already excellent. Price of common rice 17 to 18½ seers per rupee.	
	Rampore Haut ...	7.27		
	4 Midnapur .. 18, '90	4.50	Heavy rain. Prospects of rice crop fairly good. Over 12 inches of rain at Contai, and this has caused low-lying lands to be flooded, and will in parts do some loss. Prices of common rice—	
			Srs. Sudder ... 15 Tumlook ... 16 Ghatal ... 16 Contai ... 17 } per rupee.	
	5 Hooghly .. 18, '90	4.90	Continual rain throughout the week. Prospects of <i>aman</i> excellent. Outturn of jute expected to be 12 annas. Prices of common rice—	
	Serampore ...	3.61		
	Jehanabad ...	2.55		
			Srs. Sudder ... 13 Serampore ... 13 Jehanabad ... 16 } per rupee.	
	Howrah .. 18, '90	6.15	Weather—rainy. <i>Aman</i> crop promises well. Other crops satisfactory. Price of common rice 14 seers per rupee.	
	Uluberiah ...	5.08		
	Central Districts.			
	PASSERBY DIV.	6 24-Pergha. Oct. 21, '90	Figures not given.	Cyclonic weather with very heavy rain 11 up to Thursday (16th) night. Weather bright since 17th. Prospects of all standing crops good except in the flooded area of thana Baduria in the Bussirhat subdivision. Common rice selling at from 12 seers 14 chittacks to 16 seers per rupee.
7 Naddea .. 18, '90		7.28	Weather—cloudy and rainy. <i>Aman</i> rice doing well. Sowing of winter crops delayed owing to heavy rain. No change in the price of rice.	
Kushtea ...		4.37		
Meherpore ...		11.94		
Chudanga ...		6.51		
Ranaghat ...		5.07		
8 Khoolna .. 18, '90		5.72	Weather—rainy. Condition and prospects of <i>aman</i> crop excellent except in the flooded thanas of Kalaroa and Satkhira.	
Bagirhat ...		3.88		
Satkhira ...		3.69		
9 Jessore .. 18, '90		6.70	Weather—rainy. Heavy rain during the week has retarded the sowing of <i>rubbi</i> crops and may probably do some injury to crops already sown.	
Jhenidah ...		3.97		
Magura ...		3.52		
Narail ...		3.50		
Bongong ...		7.20		
10 Moorshedabad .. 18, '90		5.89	Weather—most part of the week overcast and rainy; bright sunshine prevailing from this morning (18th). Prospects of <i>aman</i> favourable. In some parts it is in ear. <i>Kalai</i> has been much injured by the recent rain, but it is still being sown. The sudden rise of the Brahmini river has submerged a considerable portion of <i>aman</i> lands in Panchgram outpost in the Lalbagh subdivision. <i>Rubbi</i> being sown. Agricultural loans and gratuitous relief are still being given.	
RAJSHAHY DIV.		11 Dinagpur .. 18, '90	14.38	Rain and storm on 14th and 15th. Prospects of crops continue good. Floods have caused injury in the south, but to what extent not known until they subside.
		Thakurgaon ...	16.98	
	12 Rajshahye .. 18, '90	6.20	Strong gale accompanied with heavy rain. Weather clear since yesterday (17th). Winter rice and other standing crops thriving well. Jute steeping and gathering in progress. <i>Bhadai</i> almost gathered in. (In last week's return for "22,000" bighas of paddy land destroyed by tornado read "2,200" bighas.)	
	Natore ...	5.88		
	Nowgong ...	9.18		
	13 Rungpur .. 18, '90	16.78	Heavy rain with storms on the 14th and 15th. Weather hot and gloomy at intervals. Standing crops in low lands have suffered much from rain. Prospects, however, are good. Prices high.	
	Nilphamari ...	12.32		
	Kurigram ...	14.64		
	Gaibanda ...	15.35		
	14 Bogra .. 18, '90	11.54	Weather—gloomy, rainy and excessively damp till 17th; now gradually clearing. Excessive rainfall from 12th to 16th has done some more harm to the transplanted rice in the west and north-west. In the middle and the east of the district this crop is still in very good condition, and the outturn and the prospects of all other crops are good throughout the district. <i>Kalai</i> is being sown, and land is being ploughed for the spring crops. A considerable extent of grazing ground has been under water, and there has been temporary scarcity of fodder. Common rice is selling at 18 seers a rupee.	
	Sherpur ...	9.56		
	15 Pubna .. 18, '90	3.30	Weather—cool and bright. Prospects of <i>aman</i> and <i>aus</i> continue as before. Winter sowings damaged by the late heavy rain.	
	16 Darjeeling		Report not received.	
	17 Jai'poree .. 18, '90	18.04	Weather—rainy and cool. Harvesting of jute going on rapidly. Standing crops doing well. No change in the price of rice.	

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

		QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
Number.	DISTRICTS.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
BENGAL.																			
Western Districts.																			
1	Burdwan	18 0	14 0	13 0	...	...	...	12 6	12 0	11 4	16 9	15 15	14 10	...	...	...	...	...	...
2	Bankoora	15 0	15 0	13 0	20 0	20 0	14 8	15 0	15 0	15 0	18 0	18 0	17 8	...	...	...	...	...	...
3	Beerbhoom	17 4	17 4	15 0	...	...	...	13 8	13 8	12 0	16 3	16 8	15 0	...	...	...	...	...	...
4	Midnapore	10 8	11 0	13 8	...	...	...	11 0	11 0	12 0	15 0	15 0	14 0	...	...	...	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	...	...	...	...	...	...
	Howrah	...	...	...	...	...	...	10 0	10 0	9 0	13 8	13 8	13 0	...	...	...	...	...	...
Central Districts.																			
	Calcutta*	...	13 4	13 2	...	17 12	17 4	...	8 14	8 0	...	12 12	12 15	...	...	...	...	...	16 13
6	24-Pergunnahs	14 8	14 8	14 0	19 0	18 12	17 0	8 0	8 0	7 0	14 0	14 0	13 4	...	...	...	...	...	...
7	Nuddoa	15 4	15 4	14 0	No Sale.	20 0	16 0	11 10	12 4	10 5	13 10	14 8	12 5	...	...	...	...	...	...
8	Khoolna	...	...	...	...	...	...	12 0	12 12	11 2	14 4	13 8	11 10	...	...	...	...	...	...
9	Jessore	18 0	13 4	12 0	...	...	...	11 0	11 0	9 0	13 0	14 8	14 0	...	...	...	...	...	...
10	Meorshabad	16 0	16 0	16 0	...	...	...	10 0	10 0	10 0	16 0	16 0	15 0	...	...	...	...	...	...
11	Dinapore	15 10	15 9	14 4	14 8	18 0	16 0	14 6	12 13	12 0	16 13	15 9	16 12	...	...	...	...	...	...
12	Rajahmbye	16 8	16 8	15 0	19 8	24 0	16 8	12 0	12 0	9 12	13 14	13 14	12 0	...	...	...	...	...	...
13	Rungpore	18 5	13 5	13 6	...	...	...	9 6	9 6	8 8	13 5	13 5	10 6	...	...	...	...	...	...
14	Bogra	13 5	15 0	13 8	...	...	...	9 12	12 0	9 12	14 4	15 0	12 0	...	...	...	...	...	...
15	Pubna	18 0	18 0	16 8	...	...	...	7 2	7 2	7 8	14 4	15 0	13 2	...	...	...	...	...	...
16	Darjeeling	9 0	9 0	10 0	10 0	10 0	10 0	5 0	5 0	5 0	12 0	12 0	10 0	...	...	...	...	...	...
17	Julpigoree*	...	13 0	11 0	...	16 0	16 0	...	8 0	8 0	...	16 0	13 0	...	...	...	...	...	...
Eastern Districts.																			
18	Dacca	12 0	12 0	13 0	14 0	13 0	26 0	13 0	13 0	9 0	14 0	14 0	11 0	...	...	...	...	...	...
19	Furzedpore	16 0	16 0	14 0	20 0	20 0	16 0	10 0	10 0	8 0	13 0	13 0	12 0	...	...	...	...	...	...
20	Backergunge*	...	...	...	...	...	...	11 0	10 0	...	12 8	10 12	...	...	...	...	...	...	...
21	Mymensingh	10 8	10 0	10 0	...	...	...	10 0	10 0	8 0	11 8	12 12	9 0	...	...	...	...	...	...

* Present return not received.

- A In subdivisions retail prices of salt per rupee are:—Cutwa 10 seers, Cutwa 10 seers 6 chittacks, and Kasegunge 10 seers.
 B At Rampore Haut retail price of salt 9 seers per rupee.
 C In subdivisions retail prices of salt per rupee are:—Contai 9 seers and Ghatal 11 seers.
 D In subdivisions retail prices of salt per rupee are:—Serampore 10½ seers and Jehanabad 11 seers.
 D1 In subdivisions retail prices of salt per rupee are:—Baraset 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
 E In subdivisions retail prices of salt per rupee are:—Koochitola 10 seers, Mohorpore 10 seers, Chooadanga 10 seers, and Ranaghat 9 seers 2 chittacks.
 F In subdivisions retail prices of salt per rupee are:—Batkira 10 seers and Bagirhat 8 seers.

ALBA OR CUMBU.
innisatum typho-
(idam.)

(*Flemingia Coroonia*.)

Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
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Ch. S. Ch. S. Ch. S. Ch. S. Ch. S. Ch.

[illegible]

	13 0	0 0	0 0	0 0
101	0 0	0 0	0 0	0 0
102	0 0	0 0	0 0	0 0
103	0 0	0 0	0 0	0 0
104	0 0	0 0	0 0	0 0
105	0 0	0 0	0 0	0 0
106	0 0	0 0	0 0	0 0
107	0 0	0 0	0 0	0 0
108	0 0	0 0	0 0	0 0
109	0 0	0 0	0 0	0 0
110	0 0	0 0	0 0	0 0
111	0 0	0 0	0 0	0 0
112	0 0	0 0	0 0	0 0
113	0 0	0 0	0 0	0 0
114	0 0	0 0	0 0	0 0
115	0 0	0 0	0 0	0 0
116	0 0	0 0	0 0	0 0
117	0 0	0 0	0 0	0 0
118	0 0	0 0	0 0	0 0
119	0 0	0 0	0 0	0 0
120	0 0	0 0	0 0	0 0
121	0 0	0 0	0 0	0 0
122	0 0	0 0	0 0	0 0
123	0 0	0 0	0 0	0 0
124	0 0	0 0	0 0	0 0
125	0 0	0 0	0 0	0 0
126	0 0	0 0	0 0	0 0
127	0 0	0 0	0 0	0 0
128	0 0	0 0	0 0	0 0
129	0 0	0 0	0 0	0 0
130	0 0	0 0	0 0	0 0
131	0 0	0 0	0 0	0 0
132	0 0	0 0	0 0	0 0
133	0 0	0 0	0 0	0 0
134	0 0	0 0	0 0	0 0
135	0 0	0 0	0 0	0 0
136	0 0	0 0	0 0	0 0
137	0 0	0 0	0 0	0 0
138	0 0	0 0	0 0	0 0
139	0 0	0 0	0 0	0 0
140	0 0	0 0	0 0	0 0
141	0 0	0 0	0 0	0 0
142	0 0	0 0	0 0	0 0
143	0 0	0 0	0 0	0 0
144	0 0	0 0	0 0	0 0
145	0 0	0 0	0 0	0 0
146	0 0	0 0	0 0	0 0
147	0 0	0 0	0 0	0 0
148	0 0	0 0	0 0	0 0
149	0 0	0 0	0 0	0 0
150	0 0	0 0	0 0	0 0
151	0 0	0 0	0 0	0 0
152	0 0	0 0	0 0	0 0
153	0 0	0 0	0 0	0 0
154	0 0	0 0	0 0	0 0
155	0 0	0 0	0 0	0 0
156	0 0	0 0	0 0	0 0
157	0 0	0 0	0 0	0 0
158	0 0	0 0	0 0	0 0
159	0 0	0 0	0 0	0 0
160	0 0	0 0	0 0	0 0
161	0 0	0 0	0 0	0 0
162	0 0	0 0	0 0	0 0
163	0 0	0 0	0 0	0 0
164	0 0	0 0	0 0	0 0
165	0 0	0 0	0 0	0 0
166	0 0	0 0	0 0	0 0
167	0 0	0 0	0 0	0 0
168	0 0	0 0	0 0	0 0
169	0 0	0 0	0 0	0 0
170	0 0	0 0	0 0	0 0
171	0 0	0 0	0 0	0 0
172	0 0	0 0	0 0	0 0
173	0 0	0 0	0 0	0 0
174	0 0	0 0	0 0	0 0
175	0 0	0 0	0 0	0 0
176	0 0	0 0	0 0	0 0
177	0 0	0 0	0 0	0 0
178	0 0	0 0	0 0	0 0
179	0 0	0 0	0 0	0 0
180	0 0	0 0	0 0	0 0
181	0 0	0 0	0 0	0 0
182	0 0	0 0	0 0	0 0
183	0 0	0 0	0 0	0 0
184	0 0	0 0	0 0	0 0
185	0 0	0 0	0 0	0 0
186	0 0	0 0	0 0	0 0
187	0 0	0 0	0 0	0 0
188	0 0	0 0	0 0	0 0
189	0 0	0 0	0 0	0 0
190	0 0	0 0	0 0	0 0
191	0 0	0 0	0 0	0 0
192	0 0	0 0	0 0	0 0
193	0 0	0 0	0 0	0 0
194	0 0	0 0	0 0	0 0
195	0 0	0 0	0 0	0 0
196	0 0	0 0	0 0	0 0
197	0 0	0 0	0 0	0 0
198	0 0	0 0	0 0	0 0
199	0 0	0 0	0 0	0 0
200	0 0	0 0	0 0	0 0

721	001	001	009	100
7				
004	000	000	000	000
704	100	000	000	000
000	000	000	000	100

KARNTI OR KARUN, ITALIAN MILLET. (<i>Setaria italica</i> .)	GRAM, CHHOLA, KAR OR SUNAG (<i>Cleome arvensis</i>)
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Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.
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S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	19 0	19 0
...	16 0	16 0
...	19 8	18 12
...	16 0	17 0
...	16 0	16 0
...	19 0	18 12

	8 14	16 12		17 0
7 0	7 0	13 0	19 0	20 0
...	...	...	21 0	21 0
...	...	...	12 0	13 0
...	...	...	16 0	16 0
...	...	...	22 8	22 8
...	...	...	18 0	18 12
...	...	...	21 0	21 0
...	...	...	12 4	12 4
...	...	...	15 0	17 4
...	...	...	18 12	18 12
...	...	...	11 0	11 0
...	...	...		16 0

...	...	...	16 0	13 0
...	...	...	16 0	16 0
...	...	...		16 8
...	...	...	14 0	15 0

Head-quarter Station Bazars of the Districts of Bengal on the 15th October, 1890.

												WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR TUR, CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.				
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. a. p.	Rs. a. p.	Rs. a. p.				
...	17 12	24 0	18 0	100 0	100 0	100 0	A k	k	11 2-2	11 2-2	10 5	3 8 0	3 8 0	3 11 0	Burdwan.	
23 0	27 0	23 0	18 0	18 0	16 0	240 0	24 0	28 0	10 0	10 4	10 0	3 13 0	3 15 0	3 15 0	3 15 0	3 15 0	Bankoosa.	
...	18 8	18 8	10 8	160 0	160 0	160 0	B	10 8	10 8	10 8	3 10 0	3 10 0	3 10 0	3 10 0	Boerbhoom.	
...	11 8	12 0	12 8	120 0	120 0	160 0	C	10 8	10 8	10 5	3 13 0	3 13 0	3 14 0	3 14 0	Midnapore.	
...	11 0	11 0	18 0	120 0	120 0	120 0	D	9 0	9 0	9 0	3 12 0	3 12 0	3 11 6	3 11 6	Hooghly.	
...	12 8	12 8	12 8	100 0	100 0	100 0	10 8	10 8	10 8	3 8 0	3 8 0	3 12 0	3 12 0	3 12 0	Howrah.	
Central Districts.																		
19 1	16 0	...	15 5	18 4	...	92 8	100 0	...	10 8	10 4	...	3 8 8	3 10 1	3 10 1	3 10 1	3 10 1	Calcutta.	
...	17 0	17 0	18 4	100 0	10 0	100 0	D1	10 12	10 12	10 0	3 7 0	3 6 0	3 10 0	3 10 0	24-Pergunnahs.	
...	16 13	16 13	17 12	...	...	...	E	9 13	9 13	9 2	3 12 0	3 12 0	3 14 0	3 14 0	Nuddea.	
...	16 0	160 0	140 0	F	8 0	8 0	9 0	4 0 0	4 0 0	4 0 0	4 0 0	Khoolna.	
...	16 0	16 0	16 0	160 0	16 0	160 0	G	9 2	9 0	9 2	4 0 0	4 0 0	4 0 0	4 0 0	Jessore.	
...	17 12	17 12	16 0	200 0	200 0	200 0	H	11 4	11 4	11 0	3 3 0	3 3 0	3 3 0	3 3 0	Moorshedabad.	
...	15 10	16 0	16 12	160 0	160 0	160 0	I	10 0	10 0	9 12	4 0 0	4 0 0	4 0 0	4 0 0	Dinapore.	
...	17 2	18 10	16 0	240 0	24 0	240 0	J	9 9	9 9	9 9	4 0 0	4 0 0	4 0 0	4 0 0	Rajahahye.	
...	10 1	10 10	10 5	100 0	100 0	100 0	K	9 6	9 6	9 6	4 4 0	4 4 0	4 4 0	4 4 0	Rungpore.	
...	90 0	90 0	90 0	...	9 0	9 12	9 0	4 0 0	3 13 4	4 0 0	4 0 0	Bogra.	
...	17 10	18 0	17 4	2 0	2 0	30 0	L k	8-11-2	8-11-2	9-2-2	3 16 0	3 14 0	4 0 0	4 0 0	Pubna.	
30 0	20 0	20 0	10 0	10 0	8 0	120 0	120 0	120 0	M	7 8	7 8	8 0	5 4 0	5 4 0	5 0 0	5 0 0	Darjeeling.	
...	11 0	12 0	...	20 0	128 0	...	...	9 0	9 0	...	4 4 0	4 2 0	...	...	Julpigoree.	
Eastern Districts.																		
...	16 0	12 0	14 0	12 0	120 0	160 0	N	9 12	9 8	10 0	4 0 0	4 2 0	3 15 0	3 15 0	Dacca.	
15 0	17 0	18 0	10 0	10 0	10 0	120 0	120 0	120 0	...	10 0	10 0	10 0	3 14 0	3 14 0	4 0 0	4 0 0	Furreedpore.	
...	Khesari, husked. 12 8			...	100 0	120 0	...	11 0	10 0	...	3 10 0	...	...	...	Backergunge.	
...	11 0	10 0	...	...	...	...	O	10 0	9 12	9 8	3 15 0	4 0 0	4 2 0	4 2 0	Nymensingh.	

O In subdivisions retail prices of salt per rupee are:—Jhenida 9 seers, Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.

H In subdivisions retail prices of salt per rupee are:—Lalbagh 10 seers, Jungipore 10½ seers, and Kandi 11 seers.

I At Thakurgaon retail price of salt 8 seers per rupee.

J In Nattore subdivision retail prices of salt 9 seers per rupee.

K In subdivisions retail prices of salt per rupee are:—Gaibanda 8 seers, Kurigram 8 seers, and Nilphamari 9 seers.

L At Serajgunge retail price of salt 10½ seers per rupee.

M At Siliguri retail price of salt 8 seers per rupee.

N In subdivisions retail prices of salt per rupee are:—Moonsheegunge 8½ seers and Narailgunge 10 seers.

O In subdivisions retail prices of salt per rupee are:—Kishoregunge 8 seers, Jamalpore 10 seers, Shoripore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.		DISTRICTS.	QUANTITIES PER RUPEE IN																	
			WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
Eastern Districts—concluded.																				
22	Chittagong	11 0	11 0	10 0	...	...	...	12 0	11 8	8 0	15 12	15 0	15 7	...	...	...	
23	Noakholly	...	...	...	...	...	...	14 0	13 0	11 8	15 0	14 0	13 0	...	...	...	
24	Tipperah	13 5	11 7	12 0	...	...	...	11 7	8 14	10 0	14 8	12 10	12 0	...	...	...	
25	Chittagong Hill Tracts.	...	...	...	...	...	...	11 6	11 6	9 11	12 15	12 15	10 0	...	...	...	
	Hill Tipperah	...	6 0	6 0	...	...	...	9 0	8 0	...	14 0	10 0	...	...	...	...
26	BEHAR.	Red.																		
	Patna	16 12	17 4	17 0	17 0	18 0	22 0	11 0	10 0	10 0	16 8	16 12	11 0	...	19 8	21 0				
		15 12	16 8	14 13	20 0	19 0	20 0	10 0	9 0	10 0	17 0	14 4	15 0	...	...	...	
27	Gya	15 4	14 12	14 12	20 0	19 0	20 0	10 0	9 0	10 0	17 0	14 4	15 0	...	...	...	
28	Shahabad	16 8	16 0	14 0	19 0	19 0	17 0	9 0	8 0	9 0	16 0	15 8	12 0	20 0	20 0	20 0				
29	Durbhunga	15 3	15 6	16 0	16 8	15 8	16 6	13 0	12 0	11 6	16 8	16 8	17 0	...	...	...	
30	Mozufferpore	16 0	16 0	14 0	19 0	20 0	19 0	9 0	9 0	9 0	14 0	14 0	13 0	...	...	...	
31	Saran	15 8	15 8	15 0	17 8	18 0	18 8	8 4	8 4	8 8	13 12	14 0	11 8	...	...	...	
32	Chumpana	17 0	17 0	14 0	19 8	21 0	17 0	10 0	9 0	8 0	15 8	14 8	16 0	...	...	...	
33	Monghyr	16 12	17 13	16 13	16 12	22 0	16 13	10 8	11 0	11 9	14 11	14 11	13 2	...	...	...	
34	Bhagulpore	16 11	17 0	18 4	22 11	21 11	16 6	11 6	10 1	12 0	13 14	13 14	13 14	...	...	...	
		12 10	12 10	...	...	...	...	12 10	12 10	...	15 2	15 2	...	...	...	...
35	Purneah	18 0	18 0	16 0	...	...	...	15 0	15 0	9 0	18 0	18 0	12 0	...	...	...	
36	Maldah	18 0	19 0	17 0	...	...	...	9 0	13 0	10 0	16 0	16 0	13 0	...	...	...	
37	Sonthal Pargha.	13 0	13 0	13 8	...	...	...	13 0	13 0	12 8	16 0	16 0	15 0	...	...	...	
ORISSA.																				
38	Cuttack	14 7	14 7	13 2	...	...	...	10 8	10 8	10 8	18 6	18 6	15 12	...	...	...	
39	Pooree	13 2	11 13	11 2	...	...	...	13 6	13 6	14 7	21 0	21 0	19 6	...	...	...	
40	Balasore	15 0	15 0	15 0	13 0	13 0	13 0	12 0	12 0	13 0	18 0	16 0	21 0	...	...	...	
CHOTA NAGPORE.																				
South-West Frontier Agency.																				
41	Hazaribagh	14 0	14 0	12 0	17 0	14 0	16 0	8 0	8 0	10 0	16 0	16 8	17 0	...	...	...	
42	Lohardugga	14 0	14 0	11 8	17 8	20 0	...	13 0	14 8	13 0	14 0	14 0	11 8	...	...	...	
		8 8	...	...	...	...	...	...	...	...	22 0	16 8	127 0	...	...	...	
43	Singbhoom	12 0	12 0	10 0	14 0	16 0	12 0	15 0	12 0	16 0	16 0	14 0	20 0	...	...	...	
44	Manbhoom	13 5	13 5	12 0	26 0	23 0	...	13 0	13 0	14 0	18 8	20 0	20 0	...	...	...	

* Present return not received.

† Price of common rice at Jajpore 17 seers 1 chittack and at Kendrapara 20 seers 7 chittacks per rupee.

O1 At Cox's Bazar retail price of salt 8 seers per rupee.

O2 At Feni HAT retail price of salt 8½ seers per rupee.

† In subdivisions retail prices of salt per rupee are:—Buxar 10 seers, Samseram 10½ seers, and Bhabuah 9½ seers.

Q At Samastipur retail price of salt 10 seers per rupee.

R In subdivisions retail prices of salt per rupee are:—Hajipore 9½ seers and Sitamarhi 10 seers.

KANGNI OR KAKUN,
ITALIAN MILLET.
(*Sesuvia italica*.)

GRAM, CHANA,
OHOLA, KADALAT
OR SUNAGA.
(*Cicer arietinum*.)

Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
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Ch. S. Ch. S. Ch. S. Ch. S. Ch. S. Ch.

...	13. 0	13. 0	11. 0	...
...	11. 0	12. 0	12. 0	...
...	10. 0	10. 0	14. 0	...
...
...	12. 0	12. 0

...	19. 8	16. 0	19. 8	19. 0	...
...	...	...	16. 0	15. 0	18. 0	17. 12	17. 0
...	...	...	...	...	19. 0	20. 0	18. 0
...	...	...	17. 8	...	19. 12	19. 12	22. 9
...	...	...	...	...	19. 0	20. 0	19. 0
...	...	...	14. 0	13. 0	18. 8	18. 8	18. 12
...	...	...	...	...	19. 8	19. 0	17. 0
...	...	...	17. 13	...	21. 0	22. 0	21. 0
...	...	...	...	...	21. 7	21. 7	18. 4
...	...	...	...	...	18. 0	18. 0	17. 0
...	...	...	...	...	20. 0	22. 0	16. 0
...	...	...	...	...	17. 0	18. 0	16. 12

Kalai.

...	...	...	15. 12	14. 7	20. 6	...
...	...	...	14. 7	14. 7	16. 6	...
...	...	...	14. 0	14. 0	14. 0	...

...	...	...	16. 0	16. 0	14. 8	...
...	...	...	18. 0	13. 0	12. 0	...
...	...	...	16. 0	14. 0	10. 0	...
...	...	...	16. 0	16. 0	14. 8	...

BEERS OF 80 TOLAHS.

BAJRA OR COMBU. (<i>Pennisetum typho- idum.</i>)			MARUA OR RAGI. (<i>Misurus Coccineus.</i>)		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

[illegible]

Station Bazars of the Districts of Bengal on the 15th October, 1890—(concluded).

												WHOLESALE PRICES PER MAUND OF 40 SEERS.												DISTRICTS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR TUR. CADJAN PRA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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S At Hottink retail price of salt 10 seers per rupee.
T In subdivisions retail prices of salt per rupee are :—Begusarai 6½ seers and Jamui 9 seers.
U In Arrah subdivision (at Bandigunge) retail price of salt 10 seers per rupee.
V In Khoorda subdivision retail price of salt 9 seers per rupee.
W At Bhadruck retail price of salt 9 seers per rupee.
X At Daltongunge retail price of salt 8 seers 7 chittacks per rupee.
Y At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and S.

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta* ...		2 12 1	2 12 6		2 0 1	2 0 11		4 3 7	4 12 0		2 14 0	2 14 0
2	Seraingunge ...	2 5 0	2 6 0	2 2 0	...	...	...	4 4 0	5 0 0	4 8 0	3 2 0	3 0 0	3 0 0
3	Dacca ...	3 4 0	3 4 0	3 0 0	2 12 0	3 0 0	1 8 0	3 0 0	3 0 0	4 6 0	2 13 0	2 13 0	3 0 0
4	Naraingunge ...	...	...	...	...	...	...	3 0 0	3 0 0	3 12 0	2 12 0	2 12 0	3 0 0
5	Chittagong ...		3 8 0	3 12 0	...	...	...	3 4 0	3 6 0	4 12 0	2 8 0	2 10 0	2 10 0
6	Patna ...	{ 3 8 0 2 5 0 2 8 0	{ Red. 2 5 0 White. 2 8 0	{ 3 12 0 2 5 0 2 8 6	{ 2 5 3 2 3 0 3 0 0	{ 2 3 0 1 12 0 3 0 0	{ 3 8 0 3 14 0 3 14 0	{ 3 14 0 3 14 0 3 0 0	{ 2 6 3 2 5 6 2 3 0	{ 2 5 6 2 7 0 2 2 0	{ 2 5 6 2 7 0 2 2 0	{ 2 5 6 2 7 0 2 2 0	{ 2 5 6 2 7 0 2 2 0
7	Balsore ...	2 8 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 0 0	2 3 0	2 7 0	1 14 3
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 3	1 14 3	2 2 0
	Cuttack ...	2 10 0	2 10 0	3 0 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	2 2 0

* Present return not received.

CALCUTTA,
The 21st October, 1890.

PRICES PER MAUND

RYAN OR CHOLUN.
(*Borghum Vulgare*.)

BAJRA OR CUMBU.
(*Pennisetum typhos-*
dum.)

Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
...	...	2 2 3	...	...	2 13 2
...
...
...
...
...
...	2 0 0	1 13 0	...	...	...
...
...
...

OF 40 SEERS.

MARUA OR RAOL (<i>Elaeagnus Corocana</i> .)			KANONI OR KAKU ITALIAN MILLET. (<i>Setaria italica</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...		4 0 0 2 2	
...
...
...
...
...
...	...	1 1 0 0 2 5 3 2 0 0 2 7	...	...	...
...
...
...

in the undermentioned *Marts* of Bengal on the 15th October, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer Aristinum.</i>)			INDIAN-CORN OR MAHER. (<i>Zea Mays.</i>)			ARHAR OR THUR. CAJAN PEA. (<i>Cajanus indicus.</i>)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
	2 1 1	2 6 8		1 13 4	2 3 10		2 5 4	1 14 10		0 5 9	0 5 6		8 8 8	8 10 1	Calcutta.
2 8 0	2 8 0	2 12 0	...	...	...	...	...	...	...	...	...	8 12 0	8 11 0	8 14 0	Serajgunge.
2 8 0	3 0 0	3 0 0	...	...	...	2 8 0	3 4 0	2 12 0	0 5 0	0 5 0	0 4 0	4 0 0	4 2 0	8 15 0	Dacca.
3 8 0	3 8 0	3 0 0	...	...	...	3 8 0	3 8 0	3 12 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Naraingunge.
2 14 0	2 14 0	3 6 0	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 11 0	Chittagong.
2 0 0	2 0 0	2 0 0	1 14 0	1 15 0	1 14 6	2 0 0	2 1 0	1 12 0	0 6 0	0 6 0	0 5 0	3 10 0	3 10 0	3 14 0	Patna.
2 12 0	2 12 0	2 12 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 2 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 12 0	3 12 0	3 10 0	Pooree.
2 5 0	(Kalmi) 2 10 0	1 12 0	...	...	...	2 0 0	2 0 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	4 0 0	3 12 0	Cuttack.

Published for general information.

C. E. BUCKLAND,
Offy. Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal.

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, 9 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	
ORISSA.	Pooree	Pooree	29.783	29.805	—	?	363	88.8	11th Oct.	71.6	13th Oct.	84.9	76.0	80.6	—	
		Gopalpore	29.779	29.801	—0.020	NNW	305	88.7	17th "	73.3	17th "	84.1	75.2	79.7	—2.4	
		False Point	29.786	29.818	—0.031	Variable	233	87.9	11th "	73.6	17th "	84.0	75.3	79.6	—1.3	
	Cuttack	Cuttack	29.742	29.834	—0.090	NE	71	91.4	11th "	73.8	17th "	86.0	75.3	80.7	—1.3	
	Balasore	Balasore	29.774	29.834	—0.060	Northerly	87	88.4	11th "	73.8	13, 17 "	84.0	75.1	79.6	—1.4	
SOUTH-WEST BENGAL.	South-West Midnapore	Rangor Island	29.814	29.841	—0.028	NE	264	89.2	12th "	70.0	14th "	83.1	75.0	79.0	—3.0	
	South 24 Pargunnahs															
	Midnapore	Midnapore	29.685	29.836	—0.071	NE	281	92.3	11th "	73.1	17th "	85.4	75.0	80.3	—0.6	
	24 Pargunnahs															
	Howrah	Calcutta	29.880	29.882	—0.001	ESE	83	89.0	11th "	71.7	17th "	83.1	74.6	78.4	—3.0	
	Hooghly															
	Burdwan	Burdwan	29.766	29.859	—0.093	E	96	91.6	11 & 13 "	74.4	14, 16 & 17 Oct.	84.8	75.6	80.3	—2.2	
	Bankura	Bankura	29.818	29.823	—0.005	Calm	83	90.1	11th "	73.6	17th "	84.1	73.7	78.9	—3.9	
	Beerbhoom	Raneegunge	29.520	29.800	—0.046	North-Easterly	77	91.5	12th "	73.4	14th "	84.6	73.7	79.1	—2.6	
	West Burdwan															
SOUTH-EAST BENGAL.	Mooredabad	Berhampore	29.789	29.857	—0.057	Easterly	92	90.1	11th "	73.8	14th "	83.6	74.4	78.5	—2.6	
	Nuddea	Krishnachur	29.803	29.852	—0.047	South-Easterly	129	91.8	11th "	73.3	14, 16 "	83.9	75.2	78.6	—2.1	
	Jessore	Jessore	29.834	29.858	—0.023	SE	105	91.8	11th "	73.4	14th "	84.6	75.9	80.3	—2.6	
	Khoulia															
	Chittagong	Chittagong	29.817	29.908	—0.014	Easterly	67	89.7	11th "	71.7	11, 13 "	86.6	73.6	80.1	—0.9	
	Chittagong Hill Tract	Damagiri						Observations not received.								
	Backergunge	Barrisal	29.864	29.870	—0.020	Calm, SE	80	90.8	11th Oct.	74.9	12—14 "	84.7	73.6	80.2	—0.6	
	Noakholly	Noakholly	29.873	29.916	+0.024	SE	116	89.0	11th "	73.3	13th "	83.4	75.2	80.4	—0.3	
	Farreedpore	Farreedpore	29.844	29.884	—0.031	SE	109	88.0	11, 13 "	75.0	13th "	84.1	76.3	80.3	—0.4	
	Dacca	Dacca	29.860	29.873	—0.032	RSE	138	92.1	11th "	75.2	16th "	80.5	76.4	81.3	—0.3	
NORTH BENGAL.	Commillah	Commillah	29.867	29.903	—0.001	SE	82	91.3	11th "	73.3	17th "	86.1	74.4	80.3	—1.4	
	Mymensingh	Mymensingh	29.881	29.891	—0.011	RSE, ENE	105	89.7	12th "	73.6	11, 14 "	83.0	74.7	78.9	—4.5	
	Bogra	Bogra	29.796	29.859	—0.034	Calm	80	89.3	11th "	70.1	14th "	81.0	73.5	77.3	—3.1	
	Patna	Seraikunge	29.837	29.874	—0.038	Variable	70	89.1	11, 13 "	72.3	16th "	83.7	74.0	78.9	—3.3	
	Rajshahye	Rampur Beah.	29.780	29.861	—0.036	South-Easterly	108	89.8	11th "	71.2	17th "	83.3	74.3	78.4	—1.3	
	Maldah	Maldah	29.780	29.873	+0.036	NE	93	90.0	11th "	67.4	16th "	81.4	73.0	76.8	—6.0	
	Dinapore	Dinapore	29.771	29.804	—0.045	NE & NNE	195	90.6	12th "	66.2	16th "	80.5	71.5	75.0	—5.4	
	Rungpore	Rungpore	29.781	29.908	—0.017	ENE	144	89.8	11, 12 "	68.7	15, 16 "	80.8	71.5	76.2	—6.3	
	Julpigoree	Julpigoree	29.814	29.900	—0.020	?	?	88.4	11 & 12 "	63.1	17th "	79.9	68.1	74.0	—4.4	
	Cooch Behar															
NORTH BENGAL.	Darjeeling Hill Tracts	Darjeeling	29.818	—	—0.048	ENE	109	88.6	11th "	66.2	12th "	87.9	69.0	63.5	—2.3	
	Purneah	Purneah	29.757	29.887	—0.028	NE & Calm	109	89.3	12th "	67.5	15 & 16 "	80.4	71.1	75.7	—4.4	
	North Bhagulpore															
	Mozufferpore	Mozufferpore	29.691	29.876	—	Variable	143	89.8	12th "	60.8	15, 16 "	83.5	71.8	77.2	—	
	Durbhanga	Durbhanga	29.731	29.803	—0.023	WSE	147	90.4	11th "	68.0	16th "	83.4	71.5	77.0	—3.6	
	Chumpram	Motihari	29.673	29.805	+0.033	Variable	128	90.2	11th "	63.8	16th "	83.3	70.6	76.9	—1.7	
	Baran	Chupra	29.680	29.876	—0.027	E	86	90.3	12th "	69.7	15th "	83.0	74.0	78.5	—1.4	
	Shahabad	Dehree	29.617	29.879	—0.045	Calm	108	90.3	12th "	69.0	15, 16 "	84.8	71.9	78.3	—1.3	
		Buxar	29.634	29.881	—0.034	N. Ely	110	89.4	12th "	68.6	15th "	83.9	71.7	77.8	—2.3	
		Arrah	29.676	29.874	—0.032	N. Ely	26	90.9	11, 12 "	67.7	16th "	84.4	72.3	78.5	—1.4	
SOUTH BENGAL.	Gya	Gya	29.491	29.879	—0.034	N	131	89.9	12th "	68.8	17th "	84.2	73.6	78.4	—2.4	
	Patna	Bankipore	29.686	29.884	—0.038	E	144	89.4	11th "	69.2	16 & 16 "	83.7	73.5	77.7	—3.3	
	South Bhagulpore															
	Monghyr	Bhagulpore	29.696	29.862	—0.036	E	115	89.2	11th "	67.5	16th "	80.7	71.4	76.0	—4.4	
	South Pargunnahs	Doonata	29.863	29.861	—0.007	Variable	130	89.6	11th "	70.3	16th "	81.2	72.3	76.6	—3.2	
	Hazaribagh	Hazaribagh	27.829	29.872	—0.007	Northerly	185	84.9	12th "	61.3	17th "	79.3	66.6	73.0	—1.7	
	Chardugga	Ranchee	27.709	29.866	—0.062	NW	146	84.3	12th "	62.4	16th "	78.9	63.8	72.4	—3.4	
	Manbhoom															
	Singbhoom	Chyebassa	29.044	29.839	—0.060	Calm	45	89.4	11th "	70.7	15 & 17 "	85.3	73.2	79.0	—1.3	
		Sibangar	29.651	29.863	+0.041	NE		89.6	11th "	69.9	16th "	82.0	71.3	76.6	—2.5	
ASSAM.	Assam	Dhubri	29.804	29.916	—0.008	ESE	312	87.2	11th "	61.9	16th "	78.8	70.8	74.7	—0.7	
		Silchar	29.869	29.917	—0.003	Calm		92.5	11 & 12 "	71.8	13th "	89.3	73.3	81.5	—	

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the years 1871 to 1890. The humidity of the atmosphere is expressed as percentage, saturated air being represented by 100. A clear sky is denoted by c and an overcast sky by 10. The normal means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the same years in the district ending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

week ending Friday, the 17th of October 1890.

Average cloud amount at 8 A.M. for week.		Rainfall of week at observing station.	DISTRICT OBSERVATIONS.										Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.	
			OF WEEK.		RAINFALL.											
					Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.				
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
70	9.02		3.4		4.80			48.91			23	Pooree	Pooree	ORISSA.		
69	6.73											Gopalpore	False Point			
68	9.23															
72	4.30	6.36	1.81	6.57	3.23	+3.35	60.63	47.37	+13.25	4.8	1.9	Cuttack	Cuttack	ORISSA.		
65	8.41	7.68	1.88	8.05	3.68	+4.37	59.17	50.17	+9.00	4.8	1.8	Balasore	Balasore			
66	12.13	12.86	2.63	16.08	4.47	+0.55	63.30	57.65	+5.65	6.0	1.9	Saugor Island	South West Midnapore			
60	4.47	4.86	1.66	4.60	2.93	+1.67	49.57	49.17	+0.40	5.3	1.3	Midnapore	Midnapore	ORISSA.		
61	5.73	6.63	1.61	6.89	3.01	+3.88	54.86	49.49	+5.37	5.5	1.3	Calcutta	24-Pergunnahs			
67	3.37	3.75	1.60	4.73	2.67	+1.06	60.39	44.68	+15.71	5.3	1.3	Burdwan	Howrah			
76	4.74	4.87	1.33	5.34	3.66	+1.68	58.91	50.40	+8.51	5.3	1.3	Bankura	Bankura	ORISSA.		
63	7.53	6.97	1.26	7.33	2.70	+4.63	68.89	50.65	+18.24	5.3	1.1	Raneegunge	Neerbhoom			
68	5.39	6.74	3.05	7.13	3.64	+3.51	59.23	49.08	+10.15	5.3	1.4	Berhampore	West Burdwan			
63	7.14	7.25	1.88	8.61	3.03	+5.58	54.76	47.11	+7.65	5.4	1.3	Krishnagar	Moorshedabad	ORISSA.		
63	6.54	5.63	1.59	5.82	2.00	+3.82	51.14	50.78	+0.36	5.4	1.5	Jessore	Nuddea			
64	2.74	1.88	1.79	2.44	4.48	-2.04	116.54	105.33	+11.21	3.0	3.0	Chittagong	Jessore			
71	3.23	4.38	1.94	5.87	3.97	+1.90	65.26	72.79	-7.53	5.3	1.3	Demagiri	Chittagong Hill Tracts	ORISSA.		
71	6.01	6.13	2	2.83	4.95	+0.87	93.87	101.74	-7.87	4.0	1.9	Barrisal	Backergunge			
60	3.33	3.36	1	4.23	3.83	+0.40	68.11	53.43	+14.68	4.7	1.4	Noakholly	Noakholly			
79	0.96	1.63	1	2.23	3.17	-0.94	55.34	57.47	-2.13	6.8	1.3	Furreedpore	Farreedpore	ORISSA.		
40	4.51				3.64		65.66					Dacca	Tipperah			
76	4.60	5.47	1.98	7.03	4.00	+3.03	73.67	95.71	-22.04	4.6	1.3	Commillah	Mymensingh			
79	12.28	11.77	1.61	11.14	3.88	+7.26	78.86	55.67	+23.19	5.3	1.3	Mymensingh	Bogra	ORISSA.		
37	6.67	4.69	1.86	5.27	3.29	+1.98	54.03	51.21	+2.82	3.3	1.4	Bogra	Fabna			
57	8.18	8.83	1.59	9.68	3.63	+6.05	74.59	51.96	+22.63	5.7	1.4	Seraingunge	Rajshahye			
61	6.71	7.63	0.89	7.60	3.81	+3.79	62.12	52.51	+9.61	5.6	1.3	Rampore Beaulah	Maldah	ORISSA.		
71	16.44	11.25	1.16	11.43	3.06	+8.37	51.73	56.62	-4.89	4.4	1.1	Maldah	Dinagore			
47	20.28	16.45	1.61	18.14	3.99	+14.15	105.67	72.16	+33.51	4.3	1.1	Dinagore	Rungpore			
49	13.25	13.73	1.35	14.93	4.29	+10.64	154.49	106.05	+48.44	4.3	1.3	Rungpore	Jalpigoree	ORISSA.		
50	10.17	10.44	1.39	15.33	4.25	+10.78	165.12	117.40	+47.72	5.0	1.4	Jalpigoree	Oooch Behar			
76	6.23	5.81	0.83	6.23	3.70	+2.53	80.67	57.07	+23.60	3.3	1.0	Darjeeling	Darjeeling Hill Tracts			
76	1.23	1.60	0.80	1.71	3.66	-2.43	53.40	42.13	+11.27	3.7	0.7	Purneah	Purneah	ORISSA.		
66	2.25	1.73	0.40	1.73	2.37	-0.64	57.82	43.21	+14.61	3.7	0.7	North Bhagulpore	Mosufferpore			
51	6.36	5.39	0.71	5.61	3.37	+2.94	66.31	46.14	+20.17	3.0	0.8	Durbhunga	Durbhunga			
64	1.95	1.63	0.66	1.45	3.61	-2.16	55.60	41.07	+14.53	3.3	0.9	Motihari	Champaran	ORISSA.		
64	0.25											Ohupra	Saran			
59	1.92	1.09	0.53	1.27	3.46	-2.19	49.63	38.17	+11.46	3.0	0.6	Dahree	Shahabad			
57	2.18											Buxar	Buxar	ORISSA.		
76	0.83	0.41	0.63	0.43	3.29	-2.86	55.94	40.02	+15.92	3.3	0.7	Arrah	Gya			
76	1.63	1.27	0.64	1.34	3.34	-2.01	48.10	39.81	+8.29	3.3	0.9	Gya	Patna			
54	5.20	5.07	0.67	5.17	3.23	+1.94	62.25	41.68	+20.57	4.4	0.8	Bankipore	South Bhagulpore	ORISSA.		
72	11.45	9.64	1.68	10.15	3.84	+7.31	62.21	49.25	+12.96	3.8	1.3	Monghyr	Monghyr			
76	0.26				3.46		46.53					Doonka	Sonthal Pergunnahs			
53	1.55	0.82	0.61	1.63	1.92	-0.37	47.91	46.40	+1.51	3.3	1.2	Hazaribagh	Hazaribagh	ORISSA.		
53	3.23	0.76		3.31	3.40	-0.07	61.43	46.33	+15.10	3.3	1.2	Ranchi	Lehardugra			
76	0.91	3.23	0.68	3.31	1.77	+1.54	141.43	49.24	+92.19	5.0	1.5	Manbhoom	Manbhoom			
93	1.81											Unjehasse	Singhbhoom	ORISSA.		
80	5.71											Siungar	Siungar			
97	2.36											Dhubri	Assam			
												Siuchar	Siuchar	ORISSA.		

The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 The mean cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal mean
 year. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisions.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 17th of October 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain fall from 1st of month.	Total rain- fall since 1st May 1890.	
			Saturday, 11th October.	Sunday, 12th October.	Monday, 13th October.	Tuesday, 14th October.	Wednesday, 15th October.	Thursday, 16th October.	Friday, 17th October.	Number rainy days.	of rainfall week.				
CENTRAL	Pooree	Pooree	0.50	2.75	4.39	1.29	1.00	.....	.....	5	6.49	8.63	4.40	64.42
		Khurdah	.....	1.00	1.00	0.20	.....	.....	0.81	4	5.20	8.94	4.22	63.10
		Bampur	0.16	2.04	1.07	0.17	.....	.....	.....	.....	.....	4.08	.....	.....
		Palee Point	0.73	2.14	4.70	1.61	0.08	.....	0.11	6	9.33	9.33	6.45	61.63
		Salpara	1.20	3.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Outback	Salpara	0.25	4.06	2.46	0.35	.....	.....	.....	.....	.....	.....	.....	.....
		Pipli	1.00	2.64	0.35	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Jagatsingapore	1.76	1.50	1.80	0.30	0.60	0.80	.....	6	6.86	6.86	4.18	59.50
		Banki	0.02	1.47	1.50	0.18	0.01	.....	0.12	6	3.20	4.17	2.50	60.56
		Outback	.....	2.40	5.35	0.03	.....	.....	0.06	4	8.44	8.44	7.08	80.10
	Balasore	Kendrapara	0.19	3.77	2.44	0.10	.....	.....	.....	4	6.09	7.11	3.42	62.34
		Injapore	.....	3.30	1.20	0.27	.....	.....	1.40	4	6.23	6.23	5.10	63.60
		Dharmasia	2.50	.....	2.40	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Salpara	.....	3.20	0.64	2.30	.....	.....	.....	.....	.....	.....	.....	.....
		Chandbali	.....	.....	4.48	0.04	.....	1.01	.....	3	7.83	7.83	4.44	50.97
SOUTH-WEST BENGAL.	Midnapore	Bhuddruck	.....	.....	5.00	0.24	.....	0.70	.....	4	7.41	8.58	2.89	54.50
		Borah	1.30	2.00	1.00	0.35	.....	.....	0.80	5	5.75	8.53	3.03	59.59
		Balasore	0.09	3.15	1.67	1.43	.....	0.94	0.73	6	8.01	8.09	4.08	65.20
		Jullasore	1.20	2.30	3.54	.....	1.80	.....	.....	.....	.....	.....	.....	.....
		Haripodah	0.36	2.62	1.77	0.25	1.20	0.46	0.81	7	7.04	7.20	3.07	70.16	
	24-Pargunnah	Diamond Har- bour	.....	0.56	1.20	5.28	0.08	0.22	1.03	6	8.99	10.21	3.23	60.54
		Canning Town	.....	.....	0.07	2.17	4.02	4.58	0.71	5	13.85	13.85	.....	60.05
		Alipore Jail	.....	.....	0.04	1.33	2.12	0.64	1.30	5	6.11	8.17	2.89	60.40
		Barrackpore	.....	0.06	1.40	1.24	1.24	3.03	0.86	6	7.20	8.06	2.04	60.35
		Dum-Dum	.....	.....	0.71	1.55	1.12	2.14	0.87	6	9.35	11.30	2.99	55.10
	Howrah	Barasat	.....	0.20	0.60	2.25	1.25	1.30	4.12	6	9.74	11.09	3.30	51.70
		Buseerhat	.....	.....	0.65	2.87	3.10	1.31	0.24	5	8.17	8.91	3.28	57.09
		Howrah	.....	.....	0.86	1.25	1.03	0.45	1.06	5	4.15	6.5	2.06	51.23
		Moharaka (Anubarsa)	.....	.....	0.60	3.15	1.10	0.23	0.02	5	5.10	5.2	2.50	59.27
		Serampore	.....	0.23	0.97	1.21	1.30	1.25	2.25	6	7.00	7.1	3.09	63.84
	Hooghly	Hooghly	.....	1.38	0.27	0.64	1.10	0.70	0.81	6	4.67	6.5	2.83	51.08
		Jehanabad	0.57	.....	0.11	1.49	1.18	0.21	0.15	6	3.66	3.7	3.27	51.67
		Burdwan	.....	.....	0.75	0.80	0.22	0.40	0.33	5	4.37	5	2.91	54.11
		Burdwan	0.02	0.04	1.09	1.30	0.51	0.40	0.01	7	3.37	.....	2.76	64.97
		Cutwa	.....	1.31	1.17	0.21	2.80	.....	.....	4	5.3	6.6	2.40	63.66
	Bankura	Manikganj	.....	2.07	0.89	3.02	1.54	0.11	.....	5	7.53	7.54	2.57	59.15
		Manik	.....	.....	0.30	1.62	0.78	0.09	.....	4	2.60	3.38	.....	47.80
		Bankura	.....	0.32	0.76	3.34	0.30	0.04	.....	5	4.76	4.76	3.00	57.76
		Bishenpore	0.14	0.24	1.32	1.09	0.55	0.13	0.06	7	4.31	4.08	1.09	59.06	
		Mahara	0.02	0.03	0.85	2.72	0.85	0.10	.....	6	5.45	5.92	2.56	59.23
	Bankura	Khatra	.....	0.18	1.38	3.30	0.10	.....	4	4.96	6.02	2.97	40.06	
		Indas	.....	0.21	1.40	1.71	1.15	0.05	0.05	6	4.79	6.74	.....	50.07
		Kotalpore	.....	0.00	0.35	0.70	2.38	0.31	0.15	7	4.85	6.64	.....	64.04
		Anda	.....	2.40	.....	3.00	0.00	0.40	.....	4	3.00	3.00	.....	55.11
		Gangajalghati	.....	0.69	0.35	2.50	0.15	.....	.....	4	3.87	3.87	.....	63.75
	Bardhaman	Kaspara	.....	0.10	0.12	2.12	1.08	0.05	0.00	6	5.36	6.13	.....	63.29
		Sonamukhi	0.61	.....	0.85	1.08	0.99	0.10	.....	5	4.51	4.51	.....	59.74
		Bh. Boory	.....	.....	0.02	3.08	1.30	0.10	0.00	5	5.56	5.57	2.57	61.45
		Hetanpore	.....	1.77	.....	0.70	2.70	0.12	.....	5	5.02	5.03	2.43	59.15
		Rampore Haat	.....	.....	0.85	4.50	1.41	0.25	0.06	6	7.3	8.08	3.23	72.36
	Nuddea	Hotpore	.....	.....	0.57	2.76	0.40	0.10	.....	4	4.03	4.03	.....	64.23
		Murari	.....	.....	1.10	4.71	1.30	.....	.....	3	7.11	7.11	.....	60.46
		Ranaghat	.....	.....	0.76	0.90	1.74	1.67	1.66	5	6.73	7.27	2.67	55.23
		Kishinaghat	.....	0.25	0.63	0.40	0.56	2.37	2.64	6	7.28	7.55	3.40	61.54
		Choodanga	.....	0.30	1.01	1.05	0.33	3.80	0.83	6	7.36	7.77	3.03	60.08
	Khoolna	Meherpore	.....	0.75	0.10	0.36	0.33	4.20	.....	5	11.94	13.19	2.57	58.00
		Koostha	.....	.....	0.40	0.60	0.85	2.40	1.71	5	6.08	6.75	3.51	51.85
		Satkura	.....	0.40	0.34	1.30	1.18	0.24	0.76	4	4.81	5.44	3.30	55.53
		Bagirhat	.....	.....	1.18	1.01	0.48	1.21	.....	4	3.83	3.83	3.55	59.99
		Khoolna	.....	0.18	0.75	1.05	1.29	1.33	0.90	6	5.80	6.75	2.64	51.04
	Jessore	Nakipur	.....	.....	2.30	1.98	0.71	0.90	1.93	5	7.80	8.18	.....	60.08
		Kampal	.....	1.09	1.25	1.80	2.03	2.51	0.23	6	9.00	9.16	.....	63.50
		Narail	.....	.....	0.81	1.00	1.13	0.54	0.15	5	3.65	4.41	1.97	43.85
		Jessore	.....	0.02	0.45	1.04	1.76	2.47	0.56	6	6.84	7.03	2.75	60.75
		Jhemidah	.....	.....	1.28	1.50	0.22	0.99	0.85	5	4.82	4.97	3.36	63.15
	Mooreheadabad	Mageorah	.....	.....	0.77	0.44	1.11	1.20	0.14	5	3.06	3.66	2.75	57.71
		Bongong	.....	1.08	0.75	0.85	1.90	2.65	0.25	6	7.45	8.05	3.20	46.21
		Kandi	.....	.....	0.08	1.18	1.36	0.34	.....	4	3.56	3.81	3.23	64.00
		Behampore	.....	0.08	0.20	2.20	2.10	1.13	.....	5	5.89	6.71	3.88	58.33
		Lalbagh	.....	0.04	0.05	0.99	2.10	2.43	0.16	7	7.08	7.14	3.06	61.22
	Hastings	Aamungunge	.....	0.10	0.41	2.00	1.03	2.15	0.20	6	6.55	6.55	4.10	57.87
		Jamungunge	.....	.....	0.94	2.05	2.54	1.80	0.04	5	6.11	6.37	2.70	51.34
		Lakula	.....	0.13	1.80	2.25	2.45	2.40	0.15	6	9.50	9.50	3.08	64.70
		Jagunja	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Akoriganj	.....	0.85	0.75	.....	1.30	1.40	2.80	6	7.18	8.23	.....	61.50
	EAST BENGAL	Chittagong	Pathabari	.....	0.90	0.70	0.70	.....	2.90	0.30	6	7.18	8.23	.....	61.50
			Cox's Bazar	.....	0.13	0.33	.....	.....	.....	0.35	3	1.01	1.11	4.79	125.77
			Chittagong	.....	.....	1.25	.....	.....	.....	0.83	3	2.63	3.75	4.17	100.19
		Chittagong Hill Tracts	Kutubdia	.....	0.67	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
			Satkhya	.....	0.00	.....	0.55	.....	.....	.....	.....	.....	.....	.....	.....
		Rangmati			0.22	0.93	.....	.....	0.15	0.40	4	1.80	2.61	3.13	57.90
	Hastings		Muma	.....	1.43	.....	.....	.....	.....	2.05	2	3.50	3.50	5.47	75.41
		Patuakhally	.....	0.87	4.60	1.00	0.57	.....	0.22	5	6.86	8.41	4.36	77.93
		Purnapore	.....	0.21	0.86	0.91	0.75	.....	0.64	5	5.37	6.40	4.09	61.53
		Harnail	.....	0.10	2.12	0.75	0.15	.....	0.15	5	3.30	4.40	3.26	60.15
Hastings	Moala	.....	0.11	0.70	3.35	0.78	.....	0.67	5	4.57	6.84	4.17	63.02	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 17th of October 1890—contd.

Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.	
			Saturday, 11th October.	Sunday, 12th October.	Monday, 13th October.	Tuesday, 14th October.	Wednesday, 15th October.	Thursday, 16th October.	Friday, 17th October.	Number of rainy days.	Amount of rain (inches).					
BHOJAL	Noakhally ...	Gournadit ...	0.55	2.85	...	0.60	0.45	...	4	3.94	3.04	?	41.16	?		
		Baughal ...	0.80	0.50	0.50	...	...	0.08	4	4.94	6.74	?	71.06	?
		Noakhally ...	0.08	...	4.75	0.25	...	0.28	0.13	5	5.30	5.00	2.80	88.16	103.13	
		Fenny ...	0.15	...	1.95	0.25	3	2.65	3.70	4.30	93.67	100.34	
		Harishpore	2.20	0.23	
	Furzedpore ...	Madaripore	2.30	...	1.22	1.45	0.05	4	4.02	4.31	3.21	87.51	91.06	
		Furzedpore	0.25	0.13	0.73	0.67	0.91	...	5	2.01	3.06	3.75	44.03	55.73	
		Goalundo	0.87	...	0.15	0.50	0.81	0.30	5	3.29	4.38	3.60	43.79	50.94	
		Dacca ...	Munshiganj ...	0.05	0.11	0.26	0.25	0.20	5	0.87	1.07	4.00	54.04	61.50
			Dacca	0.85	0.41	0.11	0.10	0.33	...	6	2.00	3.12	3.05	51.14	57.62
Narainganj ...	...		...	0.20	...	0.28	...	...	2	0.57	3.02	2.70	58.51	61.21
Manikganj ...	0.13		...	1.21	0.29	0.54	0.82	0.05	6	3.03	3.00	2.80	51.75	47.00		
Joydebpore ...	...		0.45	0.30	0.19	0.03	...	0.01	4	1.02	2.45	?	62.38	?	
Hill Tipperah ...	Tipperah ...	Agartala	1.55	3.75	3.33	...	57.90	...	
		Oemilla	0.94	2.57	0.56	0.03	...	0.34	4	4.40	4.60	3.24	61.53	72.47	
		Chandpore	1.05	1.02	...	0.35	0.12	2	2.54	2.72	3.24	64.03	72.30	
		Brahmanbaria	0.30	0.32	...	0.10	...	3	0.72	1.07	3.51	50.34	59.10	
		Ramchandrapore ...	0.17	0.31	0.46	
	Mymensingh ...	Nasirpore	0.79	0.15	0.05	0.04	...	4	1.03	1.03	?	50.20	?	
		Haudhandi	0.65	
		Kasba	0.27	
		Laksham	1.82	1	1.82	1.82	?	67.15	?	
		Mymensingh ...	Kishoreganj	0.21	1.20	0.21	3	1.62	4.20	4.25	60.97	67.00
Atia (Tangail) ...	0.46		0.70	1.70	0.06	0.37	1.54	0.37	7	6.00	3.61	3.61	54.42	63.93		
Mymensingh ...	...		...	0.15	0.50	0.44	2.34	0.37	4	4.10	4.60	4.20	75.61	71.52
Jamalpur ...	0.82		...	0.73	0.50	1.30	7.45	...	...	...	...	...	...	...
Narail ...	...		...	0.50	3.30	0.14	0.97	...	4	4.85	7.55	4.03	93.17	77.97
Pubna ...	Pubna ...	Subornakhal	0.05	0.80	0.65	3.95	0.08	5	6.14	6.19	?	57.10	?	
		Barpura	0.69	0.30	
		Shorepore Town	0.07	1.30	1.42	4.75	0.35	5	8.40	9.15	?	67.08	?	
		Dewanganj	1.42	0.50	1.80	
		Pubna	0.48	0.32	0.54	1.29	0.51	6	3.14	3.53	3.48	47.47	51.87	
	Bogra ...	Sherpore ...	0.16	...	1.15	1.43	1.10	2.87	0.01	6	6.83	7.00	3.00	62.66	60.30	
		Nowkilla	0.41	3.41	2.10	3.74	0.48	6	10.04	10.07	3.30	77.16	86.34	
		Bogra ...	0.36	...	0.50	0.72	2.77	5.27	...	6	9.62	9.02	4.20	65.50	61.40	
		Pananbibi	0.58	4.35	3.32	3.31	0.23	6	11.80	11.60	2.03	75.08	80.14	
		Pananbibi ...	0.20	...	0.93	2.00	7.28	2.00	0.31	6	12.93	13.03	3.80	91.40	84.75	
Kajalhat ...	Bauleah ...	0.01	0.37	2.03	2.18	1.03	1.87	0.71	7	6.30	10.31	3.65	71.29	81.44		
	Natore ...	...	...	0.20	1.88	1.43	2.35	3.20	5	9.08	9.16	3.60	80.45	85.06
	Nargan ...	...	1.63	0.02	3.67	2.16	1.10	...	5	9.88	9.37	1.85	80.00	81.38	
	Lalpur ...	...	0.20	0.05	0.80	2.40	0.68	0.48	6	6.16	8.18	?	51.00	?	
	Manda ...	...	0.20	3.10	3.17	0.20	...	...	5	11.79	12.10	?	47.40	?
Maldah ...	Maldah ...	...	0.10	0.17	2.85	2.34	0.70	0.45	6	0.73	6.87	3.10	64.02	60.02	
	Chanchal ...	...	...	0.37	1.39	6.25	0.16	0.15	5	8.93	8.33	2.43	60.02	60.06
	Gajal ...	...	...	0.00	1.50	2.43	1.00	0.19	5	0.92	6.52	?	85.40	?
	Sibganj ...	...	0.30	0.79	2.44	3.22	4.80	1.55	6	13.10	13.10	?	62.38	?	
	Munshiganj ...	Mohadebpore	0.16	2.00	4.50	1.20	0.50	...	5	8.35	8.51	2.72	67.94	65.56	
Churamon ...		...	...	0.65	1.93	6.03	0.74	0.14	5	9.78	9.73	2.80	80.28	81.87
Kaugunge ...		...	...	...	5.60	7.52	0.65	...	3	13.77	13.77	3.04	92.73	97.33
Munshiganj ...		...	...	...	1.70	10.70	1.55	0.38	4	15.73	15.73	3.45	80.75	81.71
Rahmatpur ...		...	...	0.43	2.20	6.04	1.11	0.26	5	10.04	10.30	3.21	81.01	81.72
Rangpur ...	Thakurgaon ...	...	...	1.41	13.30	3.22	0.27	...	4	17.20	17.31	?	107.06	?
	Huwaniganj ...	...	...	...	2.05	13.50	2.00	...	3	18.25	20.40	4.00	123.20	80.00
	(Gyachandi) ...	...	...	...	3.50	14.06	0.48	0.50	4	18.74	10.91	3.91	98.52	72.56
	Rangpur ...	...	...	0.26	3.43	10.10	0.93	0.03	5	14.07	17.47	3.74	99.30	71.80
	Kutugra	0.25	2.82	0.75	1.71	0.11	5	14.44	15.37	4.20	11.24	63.34	
Jalpaiguri ...	Jalpaiguri ...	(Nalpanari) ...	...	...	3.03	12.20	1.27	...	3	10.36	17.78	?	97.02	?
		Ulipore	
		
		
		
	Jalpaiguri ...	Jalpaiguri ...	...	...	2.45	6.20	3.61	0.72	4	13.04	18.20	3.36	158.26	114.38
		Alipore Duar ...	...	...	2.61	5.41	2.02	...	3	11.04	14.27	?	127.47	?
		Pallacotta ...	...	...	4.22	5.20	2.17	0.15	4	11.74	16.50	?	140.50	?
		Dahipuri ...	...	...	2.06	6.43	2.65	0.14	4	11.30	13.22	?	115.00	?
		
Cooch Behar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		
		
		
		
Darjeeling ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		
		
		
		
Dumkani ...	Dumkani ...	Kurse ...	...	...	1.24	5.43	1.63	1.23	5	10.00	13.36	3.03	170.31	101.45
		Siluguri ...	0.26	...	0.74	6.37	1.50	1.45	4	10.17	10.50	3.09	150.23	103.83		
		Darjeeling ...	...	...	0.74	6.37	1.50	1.45	4	10.17	10.50	3.09	150.23	103.83
		Kalimping ...	0.16	0.13	0.03	1.14	6.25	1.41	3.11	7	11.19	11.76	2.54	122.02	20.45	
		Kurseong	1.48	5.00	3.70	2.55	4	12.33	14.01	?	142.38	?	
	Purnea ...	Kurseong	
		
		
		
		
North Bhagalpor ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		
		
		
		
Burdwan ...	Tajpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Burdwan ...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nadubani ...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ranera ...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kosera ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mascherpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		
		
		
		

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 17th of October 1890—continued.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of month.	Average rain-fall from 1st of month.
			Saturday, 11th October.	Sunday, 12th October.	Monday, 13th October.	Tuesday, 14th October.	Wednesday, 15th October.	Thursday, 16th October.	Friday, 17th October.	Number of rainy days.	of Rainfall week.				
NORTH BENGAL—continued.	Chhamparan...	Motihari...	.....	.....	.....	.....	4.13	1.81	0.31	3	6.13	6.13	3.13	71.78	
		Bettiah...	.....	.....	.....	.....	1.27	3.16	0.17	3	4.60	4.60	3.40	64.84	
		Baouha...	.....	.....	.....	0.13	8.00	0.04	0.23	4	8.30	8.30	?	59.34	
NORTH BENGAL.	Bhahabad	Burharwar...	.....	.....	.....	.....	1.19	0.72	0.11	3	2.03	2.10	?	59.34	
		Gopalgunge...	.....	.....	.....	0.03	0.04	0.10	.....	3	1.67	1.67	4.76	53.67	
		Nasran...	.....	.....	.....	0.04	.....	.....	.....	3	0.81	0.81	3.07	59.34	
		Chuprab...	.....	.....	.....	1.03	0.10	.....	.....	3	1.03	1.03	2.81	48.37	
		Buxar...	.....	.....	.....	0.34	1.24	.....	.....	3	1.58	1.58	2.88	53.25	
		Duhree...	.....	.....	.....	0.00	0.30	.....	.....	3	0.30	0.30	2.10	43.14	
		Bhucheah...	.....	.....	.....	0.31	0.50	.....	.....	1	0.31	0.31	2.33	41.11	
		Rasman...	.....	.....	.....	0.35	0.50	.....	.....	2	0.64	0.64	2.64	44.19	
		Arwah...	.....	.....	.....	0.34	2.11	0.13	.....	3	2.58	2.17	2.40	53.81	
		Mohamud...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....
NORTH BENGAL.	Gya	Aurangabad...	.....	0.07	.....	.....	0.44	.....	.....	3	0.81	0.81	2.43	50.40	
		Gya...	.....	.....	.....	0.10	0.15	0.01	.....	3	0.26	0.26	1.67	50.04	
		Nowadah...	.....	.....	.....	0.43	.....	.....	.....	1	0.43	0.43	2.02	54.81	
		Jehanabad...	.....	.....	.....	0.23	0.13	0.03	.....	3	0.39	0.33	2.03	53.31	
		Arwal...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....
		Daudnagar...	.....	.....	.....	.....	0.72	.....	.....	1	0.72	1.67	?	36.81	
		Sherghatti...	.....	.....	.....	0.34	0.20	.....	.....	2	0.54	0.80	?	45.00	
		Rajauli...	.....	.....	.....	0.30	0.22	0.13	.....	4	1.07	2.07	?	54.34	
		Pakri Barwan...	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....
		Patna...	.....	.....	.....	.....	0.40	0.58	0.04	3	1.02	1.02	2.43	50.02	
NORTH BENGAL.	Patna	Dumra...	.....	.....	.....	0.25	1.35	0.10	.....	3	1.70	1.70	2.33	52.13	
		Mohar...	.....	.....	.....	0.47	0.17	0.47	.....	3	1.11	1.11	2.23	40.03	
		Barh...	.....	.....	.....	1.00	0.10	0.05	0.10	4	1.25	1.25	2.25	43.25	
		Rickram...	.....	.....	.....	0.23	0.50	0.04	.....	3	0.83	0.83	?	57.80	
		Hile...	.....	.....	0.13	0.13	0.33	0.38	.....	4	1.07	1.07	?	50.24	
		Bagmural...	0.43	.....	.....	1.50	0.27	0.04	.....	4	2.26	2.26	2.12	44.20	
		Mouhyr...	.....	.....	0.22	0.30	0.08	0.09	0.03	5	2.28	2.28	2.43	56.21	
		Jamui...	0.34	.....	.....	1.40	0.19	.....	.....	3	2.03	2.14	1.91	50.23	
		Gopri...	.....	.....	.....	1.10	2.54	.....	.....	2	4.34	4.34	?	70.44	
		Shaktipura...	.....	.....	.....	1.45	.....	0.08	.....	2	1.97	1.97	?	47.70	
NORTH BENGAL.	South Bhagal-pore	Bhagalpore...	.....	.....	0.40	1.28	3.03	0.64	0.06	5	5.41	5.41	2.46	50.77	
		Hu-ka...	.....	.....	1.05	1.05	0.54	0.03	0.02	5	3.37	3.37	?	42.11	
		Ko-la...	.....	.....	0.43	1.75	2.53	0.20	0.50	5	5.32	5.77	?	58.06	
		Bongson...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....
		Rajmahal...	.....	0.15	0.51	2.02	4.48	0.20	0.11	6	8.48	8.58	2.44	50.08	
		Godda...	0.03	.....	1.40	2.25	0.08	0.10	0.05	6	4.51	5.08	2.37	50.73	
		Pakour...	0.08	0.06	1.88	4.44	2.56	0.73	0.14	7	11.74	11.90	3.70	73.63	
		Nya Bhumka...	0.2	2.25	0.55	8.25	2.53	0.05	.....	6	11.65	12.84	3.29	56.00	
		Deonpur...	0.12	1.24	0.33	1.05	1.00	0.01	.....	6	3.84	4.14	2.41	40.43	
		Jamara...	.....	0.26	0.18	12.04	5.23	.....	.....	4	17.81	18.28	2.43	74.23	
NORTH BENGAL.	South Per-gunnahs.	Mohasama...	.....	.....	1.12	1.15	0.06	0.13	.....	4	3.28	3.28	?	48.81	
		Nonthal...	.....	.....	1.05	1.00	.....	.....	.....	.....	.....	.....	?	.....
	Hazaribagh	Pachamba...	1.71	.....	0.17	0.79	0.14	0.11	0.03	6	2.96	3.08	2.38	54.33	
		(Girdi)...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Hazaribagh...	0.05	.....	0.41	0.25	0.11	.....	0.03	5	0.86	1.33	2.33	49.95	
		Bontakur...	.....	0.10	0.30	0.20	.....	.....	.....	3	0.60	0.70	2.09	56.09	
		Muhuri Hills...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.31	.....
		Jhoomra Hills...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.40	.....
		Barh...	0.04	0.09	.....	2.03	0.72	0.02	.....	5	2.80	3.00	?	50.24	
		Chitra...	.....	.....	.....	0.37	0.35	.....	.....	3	0.72	2.05	?	47.08	
		Karagaha...	1.05	0.04	0.53	1.21	0.15	.....	.....	5	2.06	2.80	?	57.34	
		Kamghar...	.....	.....	1.00	0.23	.....	.....	.....	2	2.13	2.23	?	50.24	
NORTH BENGAL.	Lohardugga	Lohardugga...	.....	.....	.....	0.00	.....	.....	.....	1	0.00	1.70	1.86	53.19	
		Kanchi...	0.11	0.07	0.48	0.46	0.04	.....	.....	5	1.70	2.54	2.14	46.37	
		Palanow...	.....	.....	.....	.....	0.09	.....	.....	1	0.09	0.59	2.05	44.27	
		Silli...	1.10	.....	0.50	0.50	0.70	.....	.....	4	2.20	5.40	?	43.50	
		Katamat...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....
		Hosseinabad...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	41.70	
		Gorwah...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....
		Chyabum...	.....	.....	0.40	0.40	0.00	.....	.....	3	0.80	1.75	1.77	33.04	
		Chakradhar...	.....	0.15	0.25	1.30	.....	.....	.....	3	1.70	1.70	?	34.51	
		Ghutilla...	0.20	1.50	1.85	0.25	.....	.....	.....	.....	.....	.....	?	.....
NORTH BENGAL.	Manuhoom	Baharagura...	.....	.....	0.75	0.40	.....	.....	.....	.....	.....	.....	?	.....
		Parula...	0.03	0.05	1.20	0.00	0.13	0.34	.....	6	2.80	3.08	2.32	44.22	
		Gobindpore...	.....	0.15	0.08	2.47	0.18	0.41	.....	5	3.40	3.57	2.90	38.01	
		Kaphunash...	.....	.....	2.72	0.62	.....	.....	.....	2	3.34	3.34	?	61.90	
		Barabhoon...	.....	0.12	0.00	0.40	0.38	.....	.....	4	1.70	1.90	?	44.15	
		Jhalda...	1.28	0.12	0.61	1.07	.....	.....	.....	4	3.16	4.01	?	43.71	
		Chas...	.....	1.09	0.30	2.50	0.33	.....	.....	2	5.12	5.32	?	50.19	
		?	
		?	
		?	

Explanation.—..... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 21st October 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
17TH OCTOBER 1890.**

METEOROLOGICALLY speaking, the past week has been the most important of a very uneventful season, in that it furnished the severest cyclonic storm of the year up to date. It may be remembered that at the end of the previous week a low-pressure area had formed, with its centre between the Andamans and Madras. On the 11th it had intensified considerably and approached the coast, wind increased to a gale at Pooree and Gopalpore, and fierce squalls developed in the south and south-west quadrants of the whirl. On the 12th the centre of the depression continued its north-westerly march and crossed the coast during that night, winds meanwhile abating somewhat. On the 13th and 14th the depression moved northwards, its centre keeping steadily parallel to the coast; winds of course increasing at all points in its progress and quieting down in those localities from which it was receding. The far-reaching effects of the depression are exemplified, however, not so much by any very unusual wind velocity as by the general and very heavy rain which followed in its wake. So far as reports have been received, not one single station in the province, including Assam, Behar, and Orissa, fails to report rainfall, and in the great majority of cases the weekly fall exceeds the average for the whole month.

Pressure has been almost everywhere below the normal of the week, but owing to the movements of the depression it has of course varied greatly from day to day. The ultimate result is that it considerably above the average, with a disquieting element in the shape of a relatively low-pressure area in the south of the Bay. As might be expected, in Orissa and South-West Bengal have suffered the greatest defect ($-080''$ to $-050''$), whilst Behar and East Bengal are closest to the normal.

Temperature.—Consequent mainly on the depression, temperature was below the average by amounts varying from 0.9° in East Bengal to 3.8° in North Bengal. These refer to divisional averages, but local temperatures do not differ from them much. The tendency throughout the week at all places was distinctly towards a decline.

Winds were cyclonic at the beginning of the week. As the depression passed away they naturally became more feeble and variable in direction. At the close, however, they were again feebly cyclonic.

Rainfall.—As mentioned above, the rainfall has formed the most abnormal element of the weather for this season of the year. North Bengal records the highest divisional average, 11.26 (just eight times the weekly normal). Next come Orissa and South-West Bengal with $6.95''$ and $6.31''$ respectively, each about four times the normal quantity for the week. North and South Behar each received $3.41''$ (about five times the normal), East Bengal $3.25''$ (nearly double the normal), and Chutia Nagpur $1.58''$, which is more than double its average fall. Some very heavy subdivisinal falls are reported as under:—

District.	Stations.	Date.	Rainfall in inches.
24-Pergunnahs	Diamond Harbour	14th Oct. 1890	5.28
Ditto	Canning Town	14th "	2.67
Ditto	Baraset	14th "	2.25
Howrah	Oolcoberiah	14th "	3.15
Beerbhoom	Soory	14th "	3.08
Ditto	Balpoore	14th "	2.76
Backergunge	Patuakhally	13th "	4.60
Ditto	Bhola	13th "	2.33
Sonthal Pergunnahs	Pakour	14th "	4.41
Ditto	Jamtara	14th "	12.04
Manbhoom	Gobindpore	14th "	2.07
Ditto	Raghunathpore	13th "	2.72
Cuttack	Kendrapara	12th "	3.77
Ditto	Jajpur	12th "	3.30
Balasore	Baundruk	12th "	5.00
Ditto	Chandbali	13th "	4.80
Midnapore	Contai	14th "	9.40
Ditto	Tumlook	14th "	4.00
Ditto	Kukrahati	14th "	5.76
24-Pergunnahs	Canning Town	15th "	4.02
Bankoora	Bankoora	14th "	3.34
Beerbhoom	Bampur Haut	14th "	4.60
Nuddea	Meherpur	15th "	6.33
Backergunge	Bauphal	13th "	3.60
Dinagpur	Raigunge	14th "	5.60
Sonthal Pergunnahs	Pakour	15th "	3.66
Ditto	Jamtara	15th "	5.25
Manbhoom	Chas	14th "	3.60
Cuttack	Salipore	12th "	3.26
Balasore	Jellasore	14th "	3.64
24-Pergunnahs	Canning Town	16th "	4.58
Ditto	Barrackpore	16th "	3.05
Ditto	Buseerhat	15th "	3.10

District.	Stations.	Date.	Rainfall in inches.
Bankoora	Khatra	14th Oct. 1890	3.30
Nuddea	Chooadanga	16th " "	3.40
Do.	Meherpore	16th " "	4.20
Bogra	Panchibi	15th " "	7.28
Do.	Sherapore	14th " "	3.41
Rajshahye	Naogaon	14th " "	3.67
Rungpore	Kurigram	14th " "	3.43
Ditto	Nilphamari	16th " "	9.75
Julpigoree	Debigunj	15th " "	6.45
Cooch Behar	Matabhanga	14th " "	3.04
Ditto	Dinlatta	14th " "	3.00
Darjeeling	Siliguri	15th " "	5.43
Ditto	Kalimpong	16th " "	6.20
Ditto	Kurseong	16th " "	5.60
Chumpraun	Bagaha	16th " "	3.00
Sonthal Pergunnahs	Rajmehal	15th " "	4.48

Gopalpore	11th October	2.79
Ditto	12th " "	3.05
Pooree	13th " "	4.69
False Point	" "	4.70
Balasore	12th " "	2.78
Noakholly	13th " "	5.10
Saugor Island	14th " "	4.80
Ditto	15th " "	4.75
Raneegunge	14th " "	3.02
Bankoora	" "	3.33
Bogra	15th " "	3.15
Do.	16th " "	3.73
Bhagulpore	15th " "	3.03
Motiharee	" "	4.19
Julpigoree	16th " "	3.65
Serajgunge	" "	7.28

Humidity and cloud proportion were very high throughout the week.

Weather has been dull and gloomy, and much rain has fallen. Northerly winds have set in West Bengal and along the Madras coast, and barometer has recovered everywhere. These are conditions favourable to an early cold season, but unfortunately they also favour the formation of another cyclonic storm, and the latter appears the more likely favourite.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 17th of October 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 1st of May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	91.4	71.6	84.6	75.4	80.0	-1.9	0.95	1.71	+5.24	4.4	1.9	+2.5	7.27	3.82	59.86	48.01
South-West Bengal	92.3	70.0	83.9	74.6	79.2	-2.0	6.39	1.06	+4.73	5.4	1.4	+4.0	7.15	3.11	55.74	69.74
East Bengal	92.1	71.7	85.2	76.2	80.2	-0.9	3.87	1.84	+1.53	3.4	1.7	+0.7	4.17	3.97	68.46	71.11
North Bengal	99.0	82.1	81.4	72.2	76.8	-3.8	11.26	1.41	+9.85	4.8	1.8	+3.5	12.16	3.51	93.06	67.50
North Behar	90.6	66.8	82.3	71.8	77.1	-2.7	3.41	0.68	+2.75	3.1	0.8	+2.3	3.55	2.86	64.41	47.29
South Behar	90.9	66.8	83.1	72.1	77.6	-2.6	3.41	0.68	+2.73	3.0	0.9	+2.7	3.63	2.66	64.44	48.10
Chutia Nagpur	84.9	61.3	79.1	66.3	75.7	-2.8	1.58	0.76	+0.83	3.9	1.3	+2.6	1.97	2.26	45.69	47.41

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;

J. H. GILLILAND,

The 21st October 1890.

For Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
12th to 18th October 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Oct.	12th	123.6	0.2	29.801	79.5	81.4	4.9	76.5	76.6	0.879	75.3	87	ESE, ENE and E ..	117	0.07	Chiefly cloudy, o, g, d.
"	13th	93.4	Nil	768	77.2	77.5	3.2	74.3	75.6	.864	74.6	92	ESE and SE ...	113	1.16	Cloudy, o, g, d, t, <, ●.
"	14th	85.5	"	.693	76.5	78.0	5.5	72.5	75.2	.957	74.6	94	ESE, SE and SSE ...	169	2.91	Cloudy, o, g, d, p, t, <, ●.
"	15th	96.5	"	766	76.8	78.6	4.1	74.5	75.5	.867	74.9	94	SSE and calm ...	27	0.83	Cloudy, o, g, d, p, t, <.
"	16th	180.4	0.5	.875	76.7	81.5	9.0	72.5	75.3	.859	74.6	93	Variable and calm...	22	1.25	Cloudy o, g, d, p, t, <.
"	17th	140.5	8.7	.912	78.5	84.5	12.6	71.9	75.6	.849	74.3	88	W by N and calm...	26	Nil	Partially cloudy.
"	18th	142.5	9.2	.852	79.1	85.8	12.4	73.4	75.3	.827	73.5	88	Variable and calm...	25	"	Partially cloudy, p.

The mean pressure of the seven days 29.810

The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.846

The total number of hours of bright sunshine 18.6

The maximum possible number of hours of sunshine 81.2

The mean temperature of the seven days 77.8

The average temperature of the corresponding period for 24 years, S.-G.'s Office 82.3

The extreme variation of temperature 13.9

The maximum temperature 85.8

The highest velocity of the wind in one hour 11

The highest pressure of wind on one square foot Approximately 4

The mean relative humidity 90

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office 79

The total fall of rain from 12th to 18th October 1890 5.72

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.79

The total fall from 1st January to 18th October 1890 59.97

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 62.28

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; t, thunder; <, lightning; ●, continued rain; p, passing temporary shows; Δ, dew.

N. B.—In the weekly report from 24th September to 4th October 1890 read "149.5" for "14.59" as the maximum in sun of the 29th September, and also read "29.726" inches for "29.76" inches as the mean pressure of the 3rd October 1890.

J. H. GILLILAND.

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 20th October 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 12th to 18th October 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
October ...	12th ...	29.883	79.3	80.9	3.3	77.6	79.6	76.5	.873	75.1	87	...
" ...	13th ...	.881	76.0	77.9	2.9	75.0	77.6	75.5	.867	74.5	91	1.06
" ...	14th ...	.736	70.6	79.4	5.6	73.8	74.6	74.0	.833	73.7	95	2.65
" ...	15th ...	.806	76.9	80.4	7.1	73.3	78.6	78.0	.853	77.7	97	0.87
" ...	16th ...	.916	78.9	80.9	5.8	75.1	80.1	78.0	.832	77.1	90	0.50
" ...	17th ...	30.000	79.1	85.9	13.6	72.3	79.9	76.5	.888	74.9	85	1.31
" ...	18th ...	29.904	80.7	87.0	12.7	74.3	83.1	76.5	.825	73.4	73	...

The mean 10 A.M. pressure of the seven days ...	...	...	Inches.
The mean temperature of the seven days ...	...	...	78.2
The extreme variation of temperature ...	...	...	14.7
The maximum temperature ...	...	...	87.0
The mean 10 A.M. relative humidity of the seven days ...	...	...	% 89
The total fall of rain from 12th to 18th October 1890 ...	...	...	6.89
The daily mean temperatures are the crude means of maximum and minimum temperatures.			

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 20th October 1890.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of August 1890.

THE deaths registered in forty-five districts in Bengal during the month of August 1890 were 116,479, and correspond to an annual rate of 21.12 per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is 1.44 lower than the mean rate of the corresponding months of the past five years 1885—89, and is also lower than the rate of the corresponding period of any of the past five years except 1886 and 1888, *vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Monthly average of five years, 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	24.50	20.64	24.98	19.08	23.04	23.56	21.12

The following table shows the highest proportions of deaths registered during the month of August 1890, compared with the corresponding month of 1889:—

<i>Districts.</i>			<i>Districts.</i>		
Ratio per mille during—			Ratio per mille during—		
August 1890.			Aug. at 1890. August 1889.		
Darjiling	37.20	42.00	Shahabad	29.88	38.16
Gya	36.84	42.00	Khulna	27.12	17.40
Chumparun	34.08	16.84	Mozufferpore	25.92	19.96
Patna	33.12	40.20	Julpaiguri	25.20	23.64
Noakhali	30.60	23.04	Hazaribagh	25.08	32.64

The total mortality during the month under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89:—

			Ratio per mille during—		
			August 1890.	August 1889.	Monthly average of five years 1885—89.
Cholera ... ..	...	...	1.32	2.64	2.64
Small-pox ... ..	...	...	.08	.06	.04
Fever ... ..	...	...	15.24	15.12	15.12
Bowel-complaints ... ..	...	...	.48	.96	.84
Injury ... ..	...	...	.72	.84	.72
Other causes ... ..	...	...	3.00	3.36	3.00

It will be seen from the above that there was a noticeable decrease in cholera deaths during August 1890. The mortality under the other heads was pretty much the same as in corresponding past periods.

The highest annual death-rates from cholera and fever occurred in the following districts:—

<i>Cholera.</i>			<i>Fever.</i>		
Ratio per mille.			Ratio per mille.		
Chumparun ... ..	...	11.64	Noakhali ... ..	...	28.08
Gya ... ..	...	6.48	Gya ... ..	...	24.84
Shahabad ... ..	...	6.00	Julpaiguri ... ..	...	23.64
Mozufferpore ... ..	...	5.64	Darjiling ... ..	...	23.52
Patna ... ..	...	4.68	Khulna ... ..	...	23.28
Sarun ... ..	...	3.00	Dinajpur ... ..	...	21.36
Durbhanga ... ..	...	2.28	Jessore ... ..	...	21.12
			Hazaribagh ... ..	...	20.88
			Rajshahye ... ..	...	20.40

The mortality of the month under review, according to Sex, Class and Age, was distributed as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	22.08	Christians	12.36	Under 1 year	151.20
Females	19.08	Hindus	21.96	1 and under 5 years	25.68
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population	115	Mahomedans	19.92	5 " 10 "	12.72
		Buddhists	13.68	10 " 15 "	10.80
		Other classes	16.68	15 " 20 "	12.96
				20 " 30 "	12.84
				30 " 40 "	14.04
				40 " 50 "	19.44
				50 " 60 "	27.96
				60 years and upwards	48.00

Detailed information regarding the mortuary statistics of the forty-five districts of Bengal during the month under review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

Sanitary Commissioner for Bengal.

The 15th October 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of August 1890.

[illegible]

[illegible]

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BUREAU,

The 15th October 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 4th October 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 4th October 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 29.7 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 7.9 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	27.9	21.1	18.4	26.8	19.8	21.8	29.7

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.		13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.
Burdwan	33.6	21.4	16.8	53.4	Narainganj	20.7	37.8	41.4	37.3
Midnapore	9.3	13.9	9.3	17.0	Chittagong	9.4	4.7	11.7	9.4
Hughli and Chinsurah	30.4	39.4	18.1	34.5	Comilla	11.6	19.3	27.0	15.4
Berhampore	31.4	45.1	41.2	47.1	Patna City	16.3	14.6	11.4	19.8
Utterpara	37.7	37.7	24.3	9.4	Gya	20.0	42.4	26.0	26.9
Howrah	21.8	21.8	22.9	25.2	Arrah	16.7	57.4	10.1	47.9
Bali	17.5	10.5	17.5	28.1	Muzaffarpore	7.3	25.5	24.3	24.3
Krishnagar	26.5	17.0	17.0	26.5	Durhanga	22.8	37.0	35.5	40.9
Banaghat	.....	12.0	24.0	12.0	Chupra	22.2	28.2	13.1	28.2
Santipore	26.3	14.0	5.3	20.3	Bhagalpore	30.8	19.9	20.0	26.2
Jessore	12.2	.....	12.2	.....	Monghyr	28.9	44.1	30.8	27.9
Rampore Beaulah	39.4	57.6	57.8	61.1	Purneah	10.4	13.4	10.4	10.4
Darjiling	37.0	37.0	44.5	22.2	Poori	14.7	12.6	12.6	14.7
Dacca	14.9	15.6	21.4	13.0	Total	23.0	26.6	23.2	29.7

It will be seen that last week the highest birth-rate was returned from Rampore Beaulah (63.1) and the lowest from Utterpara (9.4). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23. per 1,000 of the population. The rate of the week is 5.7 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	29.2	23.4	18.3	23.4	24.1	23.7	23.0

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.		13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.
Burdwan	29.0	10.8	24.4	30.5	Narainganj	16.6	16.6	4.1	16.6
Midnapore	20.1	17.0	18.6	15.6	Chittagong	9.4	14.1	16.4	9.4
Hughli and Chinsurah	37.7	24.6	31.3	23.6	Comilla	27.0	19.3	16.4	7.7
Berhampore	33.0	20.4	49.1	22.4	Patna City	20.4	14.9	19.8	14.9
Utterpara	23.3	28.3	18.0	28.3	Gya	40.3	38.9	39.6	47.1
Howrah	13.7	13.7	14.9	14.9	Arrah	13.6	35.9	23.5	13.2
Bali	10.5	38.6	35.1	34.6	Muzaffarpore	24.3	20.8	15.4	25.5
Krishnagar	22.7	21.4	18.9	18.9	Durhanga	22.8	36.2	23.0	35.4
Banaghat	9.0	22.0	6.0	6.0	Chupra	22.2	28.2	11.1	24.2
Santipore	19.3	14.0	.....	17.3	Bhagalpore	18.1	17.2	20.6	14.5
Jessore	42.8	18.4	6.1	17.4	Monghyr	21.7	25.3	28.9	20.7
Rampore Beaulah	39.4	31.5	26.8	26.8	Purneah	15.9	17.8	6.9	10.4
Darjiling	14.8	14.8	27.0	22.2	Poori	21.5	21.0	14.7	25.2
Dacca	22.8	21.4	23.1	17.5	Total	24.7	23.4	22.4	23.0

It will be seen that last week the highest mortality occurred in the town of Gya (47·1) and the lowest in Ranaghat (6·).

Measured by last week's mortality, the highest annual death-rates from cholera and fever occurred in the following towns:—

Cholera.				Fever.			
			Ratio per mille.				Ratio per mille.
Durbhanga	...	...	8·6	Gya	...	...	29·4
Chupra	...	...	8·0	Rampore	Beauleah	...	28·9
Gya	...	...	6·1				
Patna City	...	...	8·6				

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2·3 from cholera, against 1·6 per 1,000 in the preceding week; ·5 from small-pox, against ·04; 11·7 from fever, against 10·4; 2·6 from bowel-complaints, against 3·3; ·3 from injury, against the same ratio; and 5·6 from other causes, against 6·7 in the preceding week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.			According to Class.			According to Age.		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	22·9	Christians	...	7·5	Under 1 year	...	165·9
Females	...	23·0	Hindus	...	24·1	1 and under 5 years	...	32·5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...		99	Mahomedans	...	20·5	5 " 10 "	...	12·2
			Other classes	...	76·8	10 " 15 "	...	10·3
						15 " 20 "	...	9·0
						20 " 30 "	...	13·5
						30 " 40 "	...	13·9
						40 " 50 "	...	16·2
						50 " 60 "	...	20·5
						60 years and upwards	...	68·0

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 17th October 1890.

Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 4th October 1890.

DISTRICTS.		POPULATION.		BIRTHS.				MORTALITY ACCORDING TO—												SEX.		Ratio of male deaths to every 100 female deaths, calculated on the proportion of male and female population.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116

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OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 17th October 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

Sanitary Commissioner for Bengal.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	230,043	2,58,063 6 0	21,07,220 0	4,95,923 13 0	16,800 10 0	7,70,787 13 0	67,520½	70,947	1,38,467½
Or per mile of railway ...	150 8 8	169 3 8	13,820 0	325 1 5	11 0 5	505 4 4	44 3 4	50 4 4	94 7 8
For previous 16 weeks of half-year ...	3,076,596	30,68,624 15 0	2,58,88,367 10	57,68,632 7 6	2,24,820 3 8	80,63,086 10 3	809,559½	1,063,623½	1,873,183
Total for 16 weeks ...	3,307,238	33,26,688 5 0	2,79,95,687 10	62,64,555 4 6	2,41,020 13 8	86,52,574 7 2	937,080	1,143,470½	2,080,550½
COMPARISON.									
Total for corresponding week of previous year ...	229,490½	2,61,756 9 6	17,44,963 0	4,23,041 10 6	15,623 16 8	7,90,423 3 8	61,591	67,978	129,569
Per mile of railway corresponding week of previous year ...	150 8 8	171 9 5	11,449 0	277 5 0	10 3 10	489 3 3	41 3 3	45 4 4	86 7 7
Total to corresponding date of previous year ...	3,578,271	36,03,967 1 7	3,06,74,276 10	65,36,968 3 11	2,47,240 11 0	1,03,88,161 0 6	976,163	1,186,214	2,162,377

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 12TH OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 11TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 11TH OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
1,525½	Rs. 7,00,422	Rs. 459	1,535½	Rs. 7,70,788	Rs. 505	1,525½	Rs. 2,94,14,912	Rs. 525	1,525½	Rs. 3,00,51,805	Rs. 491	Rs.	Rs. 14,53,167

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	21,871	21,136 13 0	32,683 30	2,433 2 0	27 9 0	16,647 14 0	2,033½	486	2,519½
Or per mile of railway ...	382 4	367 3 4	571 20	43 0 8	0 7 9	291 0 0	35 4 4	81 0 0	116 4 4
For previous 16 weeks of half-year ...	126,417	70,933 9 0	4,26,007 0	27,876 11 0	500 5 0	80,315 9 0	15,840	7,726	23,566
Total for 16 weeks ...	158,288	81,075 6 0	4,60,690 30	30,360 3 0	527 14 0	1,15,962 7 0	17,903½	8,162	26,065½
COMPARISON.									
Total for corresponding week of previous year ...	10,416½	5,906 14 8	27,123 0	2,033 6 0	40 7 6	7,981 12 2	1,878	827	2,705
Per mile of railway corresponding week of previous year ...	183	104 6 10	474 20	35 8 6	0 11 4	137 12 8	32 6 6	16 4 4	48 1 0
Total to corresponding date of previous year ...	207,426	1,10,210 14 2	7,17,014 0	33,331 9 0	630 14 6	1,50,163 5 8	21,374	10,920	32,294

* The increase in coaching traffic is on account of pilgrims returning from Gya.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 12TH OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 11TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 11TH OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
57½	Rs. 7,833	Rs. 136	57½	Rs. 16,648	Rs. 291	57½	Rs. 2,64,159	Rs. 165	57½	Rs. 2,42,708	Rs. 123	Rs.	Rs. 21,451

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Traffic for the week ...	16,800	4,114 10 0	9,851 0	860 11 0	3 10 8	4,488 15 0	923	48	969
per mile of railway ...	.....	184 14 10	.....	18 9 10	0 8 4	201 12 0	.....	.....	.....
previous 16 weeks of half-year ...	225,825	54,003 9 0	65,920 10	2,771 8 0	70 0 0	57,445 3 0	12,619	648	13,266
Total for 16 weeks ...	242,625	58,718 3 0	75,771 10	3,141 4 0	74 10 0	61,934 1 0	13,541	695	14,236
COMPARISON.									
Traffic for corresponding week of previous year ...	19,543	5,000 11 8	11,533 30	205 10 0	10 5 3	5,206 10 11	921	105	1,026
per mile of railway corresponding week of previous year ...	.....	225 5 7	.....	18 4 7	0 7 5	242 1 7	.....	.....	.....
Traffic to corresponding date of previous year ...	263,234	64,708 2 3	91,685 30	2,909 13 0	77 9 9	67,315 15 0	13,861	773	14,634

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 11TH OCTOBER 1890.			RECEIPTS FOR WEEK ENDING 11TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
5,837	243	22½	4,489	202	22½	1,80,453	241	22½	1,40,783	236	.....	.....	3,571

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B. Dacca, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 4th October 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Traffic for the week ...	189,814	62,540 0 0	6,40,912 0	1,69,690 0 0	12,510 0 0	2,44,740 0 0	18,544	36,623	55,064
per mile of railway ...	249	82 0 0	840 0	225 0 0	11 0 0	308 0 0	.....	.....	.....
previous 16 weeks of half-year ...	1,754,946	7,19,069 0 0	72,53,481 0	17,90,515 0 0	1,93,903 0 0	27,03,143 0 0	263,405	417,338	700,841
Total for 16 weeks ...	1,915,862	7,81,609 0 0	78,93,393 0	19,00,205 0 0	2,06,413 0 0	29,47,896 0 0	301,947	453,788	755,735
COMPARISON.									
Traffic for corresponding week of previous year ...	177,860	70,935 0 0	7,61,743 0	2,05,695 0 0	16,337 0 0	2,92,960 0 0	23,086	39,558	62,644
per mile of railway corresponding period of previous year ...	238	92 0 0	1,030 0	275 0 0	11 0 0	371 0 0	.....	.....	.....
Traffic to corresponding date of previous year ...	1,908,639	8,25,936 0 0	86,05,257 0	21,17,823 0 0	2,19,408 0 0	31,73,167 0 0	314,314	483,312	797,626

* Audited up to week ending 30th August 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 5TH OCTOBER 1890.			RECEIPTS FOR WEEK ENDING 5TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
2,92,960	392	763	2,44,740	321	711	22,08,609	276	753	22,30,546	260	.....	.....	.....

* Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	31,745	8,770 0 0	95,407 0	7,120 0 0	80 0 0	15,990 0 0	3,008	2,000	
Or per mile of railway ...	254	70 0 0	555 0	57 0 0	1 0 0	128 0 0	.....	.....
For previous 13 weeks of half-year ...	317,964	97,939 0 0	435,834 0	34,827 0 0	2,575 0 0	*1,34,944 0 0	45,975	26,801	
Total for 14 weeks ...	349,729	1,06,709 0 0	5,38,231 0	41,747 0 0	2,495 0 0	1,50,924 0 0	49,648	28,802	
COMPARISON.									
Total for corresponding week of previous year ...	36,064	10,963 0 0	70,683 0	9,126 0 0	80 0 0	19,106 0 0	3,573	2,932	
Per mile of railway corresponding period of previous year ...	289	86 0 0	555 0	65 0 0	1 0 0	154 0 0	.....	.....
Total to corresponding date of previous year ...	369,610	1,29,410 0 0	5,00,737 0	36,394 0 0	2,651 0 0	1,17,465 0 0	46,008	25,946	

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 5TH OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 4TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 4TH OCTOBER 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
126	19,190	154	125	15,990	128	126	3,97,393	118	125	*2,16,432	94	.....	.....

* Audited up to week ending 30th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,061	5,750 0 0	24,371 0	2,100 0 0	190 0 0	8,010 0 0	2,415	705	
Or per mile of railway ...	198	67 0 0	283 0	24 0 0	2 0 0	93 0 0	.....	.....
For previous 13 weeks of half-year ...	191,123	59,970 0 0	1,68,305 0	14,309 0 0	2,835 0 0	*78,174 0 0	30,726	9,900	
Total for 14 weeks ...	208,193	65,690 0 0	1,93,236 0	16,409 0 0	4,076 0 0	86,184 0 0	33,141	9,971	
COMPARISON.									
Total for corresponding week of previous year ...	13,815	4,123 0 0	24,778 0	3,003 0 0	80 0 0	7,986 0 0	2,523	1,013	
Per mile of railway corresponding period of previous year ...	161	49 0 0	404 0	35 0 0	1 0 0	85 0 0	.....	.....
Total to corresponding date of previous year ...	206,684	64,446 0 0	2,90,923 0	21,109 0 0	3,169 0 0	88,734 0 0	34,860	12,778	

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 5TH OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 4TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 4TH OCTOBER 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,223	85	86	8,010	93	86	1,63,003	70	86	*1,68,045	78	5,043	.....

* Audited up to week ending 30th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Traffic for the week ...	2,981	Rs. 920 0 0	Mds. 18,805 0	Rs. 1,000 0 0	Rs. 30 0 0	Rs. 2,020 0 0	880	170	750
per mile of railway ...	98	34 0 0	680 0	40 0 0	.....	74 0 0	.....	.....	.....
previous 13 weeks of half-year ...	37,316	12,036 0 0	1,18,605 0	5,174 0 0	199 0 0	*19,409 0 0	2,012	5,044	12,056
Total for 14 weeks ...	39,937	12,956 0 0	1,22,408 0	7,264 0 0	309 0 0	21,439 0 0	7,593	5,214	12,806
COMPARISON.									
Traffic for corresponding week of previous year ...	2,980	1,036 0 0	2,128 0	223 0 0	631 0 0	1,959 0 0	586	340	926
per mile of railway corresponding period of previous year ...	98	40 0 0	115 0	8 0 0	24 0 0	72 0 0	.....	.....	.....
Traffic to corresponding date of previous year ...	42,012	15,423 0 0	1,27,660 0	8,447 0 0	1,203 0 0	25,133 0 0	8,054	5,941	12,995

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 1st OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 4th OCTOBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 5th OCTOBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 4th OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.		
Rs. 1,990	Rs. 72	27½	Rs. 2,020	Rs. 74	27½	Rs. 50,717	Rs. 69	27½	Rs. *47,441	Rs. 64	.....	Rs.	Rs. 3,276

* Audited up to week ending 30th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 4th October 1890, on 691 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Traffic for the week (on 691 miles open) ...	72,660	Rs. 30,630	Mds. 2,19,740	Rs. 30,220	Rs. 6,210	Rs. 60,960	12,662	11,105	23,767
per mile of railway ...	105.15	44.16	318.03	43.73	8.99	89.90	.....	.....	.....
previous 13 weeks of half-year ...	931,340	2,58,922	22,07,004	3,77,700	81,867	2,18,556	151,693	143,517	295,210
Total for 14 weeks ...	(a) 1,603,900	3,80,439	(b) 24,26,764	4,07,980	*83,077	2,88,516	164,355	154,023	318,378
COMPARISON.									
Traffic for corresponding week of previous year ...	73,616	25,457	2,13,226	19,250	5,735	51,451	10,481	11,063	21,544
per mile of railway corresponding week of previous year on 690 miles ...	113.48	36.82	328.55	29.67	10.98	79.27	.....	.....	.....
Traffic to corresponding date of previous year ...	1,009,832	2,60,261	24,97,993	4,32,116	1,12,730	2,14,027	166,696	177,979	344,675

* Steam-boat earnings for the week, Rs. 5,350.
Ditto to date, .. 66,510.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 1st OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 4th OCTOBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 5th OCTOBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 4th OCTOBER 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.		
Rs. 60,960	Rs. 89.90	649	Rs. 61,451	Rs. 79.27	671	Rs. 22,09,196	Rs. 123.24	649	Rs. 22,20,750	Rs. 127.92	.....	Rs.	Rs. 20,554

(a) Excludes 37,293 passengers, being traffic common to B. and N.W. and T. Railways.
(b) Do. 1,53,594 mounds, ditto ditto.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, OCTOBER 29, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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FINANCIAL DEPARTMENT.

FINANCE.

Darjeeling, the 19th October 1890.

RESOLUTION.

THE Lieutenant-Governor is now in a position to review the actual financial results of the year 1888-89, the revised estimates for the year 1889-90, and the budget estimates for 1890-91. The Accountant-General's memorandum on the accounts of the first year has just been received, and the Government of India have considered the estimates which the Local Government formed of its financial position at the close of the past year, and of the funds at its disposal during the current year.

Part I.

ACCOUNTS OF 1888-89.

2. The revised estimate adopted in the Financial Resolution of the 28th September 1889 assumed that the year 1888-89 had opened with a credit balance of Rs. 33,09,000 and closed with a credit balance of Rs. 28,29,000, that the total amount available for expenditure was Rs. 5,22,10,000, and that Rs. 4,93,81,000 had been spent. The actual result was less favourable than this estimate by Rs. 1,77,917. The amount actually available for expenditure was Rs. 5,20,86,994, and the amount actually expended Rs. 4,94,35,920. The closing credit balance was Rs. 26,51,074. The following statement will show to what extent the anticipations formed at the beginning of the year were actually realized under each major head of account:—

RECEIPTS.	Revised estimate for 1889-90, adopted in September 1889.	Actuals, 1888-89.	EXPENDITURE.	Revised estimate for 1889-90, adopted in September 1889.	Actuals, 1888-89.
	Rs.	Rs.		Rs.	Rs.
Opening balance	88,09,000	88,09,000	Direct demand on the Revenue—		
Principal Heads of Revenue—			1. Refunds and drawbacks ...	1,42,000	1,40,126
I.—Land Revenue—			2. Assignments and compensa-		
a. Proper	86,04,000	86,87,775	tions	1,30,000	1,39,300
b. Adjustments	—4,00,000	—5,01,828	3. Land Revenue	85,12,000	85,13,000
III.—Salt	88,000	88,105	4. Salt	21,000	21,223
IV.—Stamps	1,03,70,000	1,03,70,230	5. Stamps	3,70,000	3,70,324
V.—Excise	37,23,000	37,22,910	6. Excise	1,00,000	1,00,000
VI.—Provincial Rates	41,00,000	41,00,323	7. Provincial Rates	3,17,000	3,17,410
VII.—Customs	47,000	46,891	8. Customs	5,21,000	5,24,020
VIII.—Assessed Taxes	19,50,000	19,50,008	9. Assessed Taxes	75,000	74,885
IX.—Forests	3,38,000	3,38,464	10. Forests	1,87,000	1,88,103
X.—Registration	3,47,000	3,40,777	11. Registration	3,00,000	2,99,730
Total	2,94,31,000	2,93,20,419	Total	55,90,000	56,90,801
XII.—Interest	1,20,000	97,368	13. Interest on ordinary debt ...	40,000	43,863
Post-office, Telegraph, and Mint—			14. Do. on other obligations ...	6,000	.....
XIV.—Telegraphs	1,000	820	Post-Office, Telegraph, and Mint—		
			15. Telegraphs	1,000	834
Receipts by Civil Department—			Salaries and expenses of Civil		
XVI.—Law and Justice—			Department—		
a. Courts of Law	7,90,000	7,89,438	16. General Administration ...	16,02,000	15,71,095
b. Jails	7,75,000	7,75,021	17. Law and Justice—		
XVII.—Police	3,38,000	3,38,197	a. Courts of Law	81,02,000	81,01,735
XVIII.—Marine	9,05,000	9,11,733	b. Jails	17,00,000	17,05,795
XIX.—Education	6,11,000	6,11,884	18. Police	48,37,000	48,34,099
XX.—Medical	1,34,000	1,36,165	19. Marine	9,88,000	10,71,198
XXI.—Scientific and other Minor			20. Education	24,60,000	24,58,200
Departments	1,65,000	1,65,154	21. Medical	14,88,000	14,87,730
Total	37,20,000	37,37,899	22. Political	24,000	24,463
Miscellaneous—			23. Scientific and other Minor		
XXII.—Receipts in aid of Super-			Departments	8,14,000	8,10,060
annuation	40,000	48,846	Total	2,10,09,000	2,10,54,365
XXIII.—Stationery and Printing ...	1,75,000	1,75,078	Miscellaneous—		
XXV.—Miscellaneous	8,42,000	8,34,755	24. Superannuation, &c. ...	13,70,000	13,70,607
Total	10,00,000	10,58,767	25. Stationery and Printing ...	10,21,000	10,21,438
Railways—			26. Miscellaneous	2,23,000	2,40,632
XXVI.—State Railways (gross earn-			Total	36,17,000	36,52,077
ings)—			Famine Relief and Insurance—		
a. Eastern Bengal State Rail-			27. Famine Relief	54,000	54,538
way	61,05,000	61,04,804	28. Construction of Railways ...	—11,000	—10,803
b. Other Railways	53,80,000	53,80,005	Railways (Revenue account)—		
Total	1,17,34,000	1,17,33,869	29. State Railways—		
Irrigation—			Working ex-		
XXIX.—Major works (direct receipts)	13,94,000	13,94,300	penses. Eastern Bengal		
XXX.—Minor works and Naviga-			State Railway	31,05,000	31,04,804
tion—			Other Railways	37,84,000	37,84,203
a. By Public Works Depart-			Interest on debt	23,61,000	23,61,303
ment	8,68,000	8,67,844	30. Subsidized Companies—Land,		
b. By Civil Department ...	1,02,000	1,02,154	&c. ... ..	.....	—885
Total	23,64,000	23,64,307	31. Miscellaneous Railway expen-	1,43,000	1,42,693
Buildings and Roads—			Total	35,53,000	35,52,715
XXXII.—Civil works—			Irrigation—		
a. By Public Works Depart-			32. Major works—		
ment	2,00,000	2,00,076	Working expenses	14,18,000	14,18,000
b. By Civil Department ...	2,74,000	2,74,044	Interest on debt	23,40,000	23,39,840
Total	4,74,000	4,74,040	33. Minor works and Navigation—		
Contributions ... ..	.....	.....	a. By Public Works Depart-		
Total	4,69,01,000	4,67,70,003	ment	14,76,000	14,75,746
GRAND TOTAL	5,22,10,000	5,20,88,994	b. By Civil Department ...	2,000	1,911
			Total	32,36,000	32,35,596
			Buildings and Roads—		
			34. Civil Works—		
			a. By Public Works Depart-		
			ment	89,04,000	89,04,303
			b. By Civil Department ...	1,20,000	1,19,056
			Total	40,54,000	40,23,359
			Contributions	7,50,000	7,50,184
			Total	4,83,81,000	4,84,33,830
			Closing balance	23,19,000	23,51,074
			GRAND TOTAL	5,22,10,000	5,20,88,994
			Provincial surplus (+) or deficit ...	—4,80,000	—5,67,917

REVENUE.

3. The net decrease of Rs. 1,22,997 under the head of Receipts is principally due to the fact that no credit was afforded to Provincial Revenues for the assignment made by the Government of India on account of the cost of the construction of a vessel to replace the pilot brig *Cassandra*, and for which a provision of one lakh was included in the revised estimate. The total cost on account of the

brig has been adjusted in the accounts of 1889-90. The principal change introduced into the accounts of 1888-89 is the reclassification of loans and advances, the control of which has been made over to the Provincial Government. The interest on these loans received during the year amounted to Rs. 24,820, viz. —

	Rs.
On loans to Municipalities and other Public Corporations, excluding Presidency Corporation ...	1,324
On loans to landholders and other notabilities ...	345
On advances to cultivators ...	12,192
On advances under special laws ...	10,959
Total ...	24,820

The 4 per cent. payable to the Imperial Revenues on the amount advanced from the treasury amounted to Rs. 45,802, and the difference between the two amounts, Rs. 20,982, has been credited to Provincial under the head of Land Revenue.

EXPENDITURE.

4. The actual expenditure shows a net increase of Rs. 54,920 compared with the revised estimate. There was an increase of Rs. 83,198 under "Marine," in consequence of larger payments made than were anticipated to the Government Dockyard at Bombay for the cost of building the pilot brig to replace the *Cassandra*. The final adjustment of accounts also caused an increase of Rs. 14,632 under "Miscellaneous." Against these increases there was a decrease of Rs. 30,905 under "General Administration," caused chiefly by the restricted expenditure under "Tour expenses of the Lieutenant-Governor" and by savings under "Commissioners" on account of privilege leave absences of officers during the year. There were also small decreases under "Police" and "Scientific and other Minor Departments."

5. The transactions of the Provincial loans and advances not included in the cash account are as follow:—

	1889-90.		
	Outgoings.	Receipts.	Closing balance.
	Rs.	Rs.	Rs.
Advances to cultivators, &c.—Loans under the Land Improvement Act XIX of 1883 ...	2,44,714	56,233	1,88,481
Advances to cultivators under Act XIII of 1884 ...	2,07,851	26,849	1,81,002
Famine advances ...	5,318	4,731	587
Advances under special law—Zemindary embankment advances ...	1,50,067	29,756	1,20,311
Drainage advances—			
Ampta drainage ...	52	.....	52
Howrah do. ...	2,94,868	24	2,94,844
Nuddea do. ...	290	.....	290
Rajapore do. ...	5,45,590	.....	5,45,590
Dancoonee do. ...	73,555	33,060	40,495
Protapkhally do. ...	12	.....	12
Loans to landholders ...	19,000	255	18,745
Do. to Darjeeling Municipality ...	28,960	1,771	27,189
Do. to Mirza Mahomed Hossain's Fund ...	505	205	300
Total ...	15,70,782	1,52,884	14,17,898

Part II.

REVISED ESTIMATE, 1889-90.

6. A revised estimate, based on the actuals of eight months, was submitted to the Government of India with letter No. F $\frac{1-8}{41}$ 62, dated 30th January 1890. A few important changes in these estimates were again reported on the

6th March 1890. The year has now expired, and although the account has not yet been finally closed and is still open to adjustment, there are sufficient materials to make an approximate estimate of the actual financial position of the province at the close of the year. The following statement shows the revised estimates as framed by the Local Government, the estimates as modified by the Government of India, and the estimates as now adopted with reference to the preliminary actuals of the year:—

RECEIPTS.	Revised estimate, Bengal Government.	Revised estimate passed by Government of India.	Revised estimate now adopted.	EXPENDITURE.	Revised estimate, Bengal Government.	Revised estimate passed by Government of India.	Revised estimate now adopted.
Opening balance	Rs. 26,51,000	Rs. 26,51,000	Rs. 26,51,000	Direct demand on the revenues—	Rs.	Rs.	Rs.
Principal heads of revenue—				1. Refunds and drawbacks	1,38,000	1,38,000	1,40,000
I.—Land Revenue	90,13,000	1,01,84,000	1,03,08,000	2. Assignments and compensations ...	1,54,000	1,54,000	1,54,000
III.—Salt	1,15,000	1,15,000	1,24,000	3. Land Revenue	25,24,000	25,24,000	25,24,000
IV.—Stamps	1,05,75,000	1,05,50,000	1,06,78,000	5. Salt	81,000	81,000	81,000
V.—Excise	25,50,000	25,50,000	25,12,000	6. Stamps	3,71,000	3,85,000	3,83,000
VI.—Provincial Rates	42,77,000	43,00,000	43,40,000	7. Excise	1,34,000	1,34,000	1,40,000
VII.—Customs	80,000	50,000	55,000	8. Provincial Rates	3,25,000	3,35,000	3,37,000
VIII.—Assessed Taxes	20,00,000	20,25,000	20,83,000	9. Customs	5,35,000	5,35,000	5,35,000
IX.—Forests	3,85,000	3,85,000	4,84,000	10. Assessed Taxes	81,000	81,000	81,000
X.—Registration	5,75,000	5,87,000	6,00,000	11. Forests	2,25,000	2,05,000	2,05,000
Total	2,94,98,000	3,08,29,000	3,11,57,000	12. Registration	3,15,000	3,15,000	3,15,000
XII.—Interest	1,15,000	1,15,000	1,15,000	Total	28,91,000	29,10,000	29,10,000
Post-office, Telegraph, and Mint—				13. Interest on ordinary debt	75,000	75,000	75,000
XIV.—Telegraphs	1,000	1,000	1,000	Post-office, Telegraph, and Mint—			
Receipts by Civil Department—				16. Telegraphs	1,000	1,000	1,000
XVI.—Law and Justice—				Salaries and expenses of Civil Department—			
Courts of Law	7,90,000	7,90,000	8,05,000	18. General Administration	15,91,000	15,93,000	15,93,000
Jails	7,45,000	7,45,000	8,04,000	19. Law and Justice—			
XVII.—Police	4,06,000	4,04,000	4,27,000	Courts of Law	81,01,000	81,31,000	81,31,000
XVIII.—Marine	5,00,000	5,00,000	5,54,000	Jails	17,30,000	18,20,000	18,20,000
XIX.—Education	5,70,000	5,70,000	5,70,000	20. Police	65,12,000	65,12,000	65,12,000
XX.—Medical	1,30,000	1,30,000	1,40,000	21. Marine	11,44,000	11,44,000	11,44,000
XXI.—Scientific and other Minor Departments.	1,78,000	1,78,000	1,85,000	22. Education	24,73,000	24,40,000	24,40,000
Total	36,83,000	36,83,000	38,30,000	23. Medical	16,02,000	16,22,000	16,22,000
Miscellaneous—				24. Political	24,000	24,000	24,000
XXII.—Receipts in aid of Superannuation.	45,000	45,000	45,000	25. Scientific and other Minor Departments.	3,05,000	3,05,000	3,05,000
XXIII.—Stationery and Printing ...	1,60,000	1,60,000	1,60,000	Total	2,22,17,000	2,22,94,000	2,22,94,000
XXV.—Miscellaneous	5,28,000	5,28,000	5,08,000	Miscellaneous—			
Total	10,34,000	10,34,000	10,01,000	29. Superannuation, &c.	14,28,000	14,35,000	14,35,000
Railways—				30. Stationery and Printing	10,13,000	10,13,000	9,93,000
XXXVI.—State Railways (gross earning)—				31. Miscellaneous	2,19,000	2,19,000	2,19,000
Eastern Bengal State Railway.	63,50,000	63,15,000	61,01,000	Total	28,88,000	28,87,000	28,87,000
Other Railways	59,39,000	61,65,000	64,03,000	Famine Relief and Insurance—			
Total	1,22,89,000	1,24,80,000	1,25,04,000	33. Famine Relief	3,75,000	3,75,000	3,75,000
Navigation—				37. Construction of Railways	—2,000	—2,000	—2,000
XXIX.—Major works (direct receipts).	14,44,000	14,44,000	15,81,000	Railways (Revenue account)—			
XXX.—Minor works and Navigation—				38. State Railways—			
By Public Works Department.	8,00,000	8,00,000	7,89,000	Working { Eastern Bengal State Railway.	33,50,000	33,15,000	31,50,000
By Civil Department	1,83,000	1,03,000	1,05,000	expenses { Other Railways	27,51,000	27,68,000	29,34,000
Total	23,47,000	23,47,000	24,18,000	Interest on debt	34,45,000	34,41,000	34,31,000
Buildings and roads—				40. Subsidized Companies—Land, &c. ...	1,000	1,000	1,000
XXXII.—Civil works—				41. Miscellaneous Railway expenditure ...	85,000	83,000	83,000
By Public Works Department.	2,79,000	2,42,000	2,42,000	Total	96,02,000	96,06,000	94,80,000
By Civil Department	3,60,000	3,60,000	3,17,000	Irrigation—			
Total	5,79,000	5,42,000	5,70,000	42. Major works—			
Contributions	—	—	—	Working expenses	14,36,000	14,57,000	12,30,000
Total	4,26,45,000	4,11,53,000	4,15,74,000	Interest on debt	23,08,000	23,03,000	23,03,000
GRAND TOTAL	5,21,97,000	5,38,03,000	5,46,32,000	43. Minor works and Navigation—			
				By Public Works Department	16,96,000	16,96,000	14,70,000
				By Civil Department	2,000	2,000	2,000
				Total	55,02,000	55,00,000	51,40,000
				Buildings and roads—			
				44. Civil works—			
				By Public Works Department	29,78,000	29,78,000	31,30,000
				By Civil Department	60,000	60,000	60,000
				Total	30,38,000	30,38,000	31,90,000
				Contributions	8,00,000	8,00,000	11,00,000
				Total	5,02,17,000	5,02,64,000	5,04,00,000
				Closing balances	19,80,000	25,39,000	27,00,000
				GRAND TOTAL	5,21,97,000	5,38,03,000	5,46,32,000
				Provincial surplus (+) or deficit (—)	(—) 6,71,000	(+) 8,88,000	(+) 11,00,000

RECEIPTS.

7. Land Revenue.—The total Land Revenue receipts for the year 1889-90, as estimated by the Local Government in January last, amounted to

Rs. 3,82,59,000, and this estimate was raised by the Government of India to Rs. 3,86,50,000. The Comptroller-General's statements show that the total collections in 1889-90 were Rs. 3,89,05,000. The 10 per cent. on collections from Government estates amounts to Rs. 4,14,000, and the total Provincial share of land revenue for the year is therefore one-fourth of (Rs. 3,89,05,000—Rs. 4,14,000) + Rs. 4,14,000, or Rs. 1,00,37,000. This amount has been taken as the revised estimate of Provincial share of Land Revenue (proper) for 1889-90. The adjustments between Imperial and Provincial will result in a net credit for Rs. 2,71,208 to the latter as shown below :—

	Estimate of the Government of Bengal.	Estimate of the Government of India.	Revised esti- mate now adopted.
	Rs.	Rs.	Rs.
Fixed contribution to Imperial	—6,90,000	—6,90,000	—6,90,000
For special contribution to Imperial	—10,00,000	.....	.....
" new pilot brig	+1,50,000	+1,50,000	+1,91,423
" Orissa Coast Canal	+1,81,000	+1,81,000	+1,81,000
" Hidgellee Tidal Canal	+1,85,000	+1,85,000	+1,85,000
" Interest on exchange, State Railways	+93,000	+93,000	+93,000
" Hire of the steamer <i>Heron</i>	+7,000	.....	.....
" Inter-provincial adjustments	—42,000	+30,000	+46,621
" Adjustment for Shajehanpore rum	+17,000	+24,000	+22,647
" " Bengal-made rum	.....	.....	—10,261
" " ganja	—44,000	—48,000	—45,060
" Half the cost of the Special Branch of the Police Office	+5,000	+5,000	+1,293
" Mr. Kilby's salt-weighting machine	+33,000	+33,000	+33,000
" Custom House Appraisers	+8,000	+8,000	+7,280
" Conservation of ancient monuments	+1,000	+1,000	+1,000
" Petroleum Wharf Establishment	+4,000	+4,000	+4,000
" Accommodation for the Wharf Officers at Budge-Budge	.....	.....	+25,000
" Eastern Bengal Railway Police	+41,000	+41,000	+41,000
" Political charges	+21,000	+21,000	+21,000
" Trial borings of seams of coal in Sonthal Pergunnahs	—4,000	—4,000	—4,475
" Calcutta Police	+2,00,000	+2,00,000	+2,00,000
" Forest Survey charges	—3,000	—3,000	—2,900
" New method of testing by distillation the strength of imported spirits	+3,000	+3,000	+2,500
" Adjustment on account of new classi- fication of rewards out of criminal fines in Excise and Stamp cases	.....	.....	—28,859
Total	—8,34,000	+2,34,000	+2,71,208

The addition of Rs. 2,71,000 to the Provincial share of Land Revenue against a net credit for Rs. 8,34,000 to Imperial provided for in the revised estimate of the Local Government is chiefly due to the decision of the Government of India to appropriate the special contribution of 10 lakhs in 1890-91 instead of in 1889-90.

8. *Salt*.—The original estimate under this head was raised from Rs. 83,000 to Rs. 1,18,000 in consequence of the increase under "Rents of warehouses," caused chiefly by the reduction of the rate of rent from Rs. 5 to Rs. 3 for 1,000 maunds of salt bonded. The amount of salt bonded during the year was the largest on record, and the salt was kept longer in the godowns than formerly. The actual Provincial receipts have amounted to Rs. 1,24,000.

9. *Stamps*.—The revised estimate of the Local Government under this head, amounting to Rs. 1,05,75,000 (Provincial share), was raised to Rs. 1,06,50,000 by the Government of India. The Comptroller-General's statements show that the total receipts amounted to Rs. 1,42,38,000. The revised estimate of Provincial share has accordingly now been placed at Rs. 1,06,78,000. The increase was chiefly under court-fee stamps.

10. *Excise*.—The estimate of receipts under this head was originally placed by the Accountant-General at Rs. 1,11,09,000, but was reduced by the Local Government to Rs. 1,05,00,000, and this amount was passed by the Government of India. The results of the settlement of shops for the sale of country spirits having shown a decrease of more than 8 lakhs in license fees as compared with

the actuals of 1888-89, the estimate was reduced to Rs. 1,02,00,000 in the Financial Resolution dated the 28th September 1889, and the same figure was adopted in the revised estimate of the Government of India. The latest returns show that the total receipts of the year were not less than Rs. 1,04,75,000, and one-fourth of this, or Rs. 26,19,000, has been taken as the revised estimate of the Provincial share.

11. *Assessed Taxes.*—The revised estimate of the Local Government under this head, amounting Rs. 40,00,000, was raised by the Government of India to Rs. 40,50,000. The actuals amounted to Rs. 41,66,000, and half of this, or Rs. 20,83,000, has been taken as the revised estimate of the Provincial share. The greater portion of the increase was due to the careful revision of assessments in Calcutta.

12. The total receipts of the Civil Department amount to Rs. 38,20,000 against Rs. 36,83,000, the revised estimate adopted in the Financial Statement. The increase was chiefly under Jails.

13. *Railways.*—The following statement compares the estimates as originally proposed by the Local Government with those passed by the Government of India and those now adopted :—

				Revised estimate passed by the Local Government.	Revised estimate passed by the Government of India.	Revised estimate now adopted.
RECEIPTS—				Rs.	Rs.	Rs.
Eastern Bengal	...	...		72,23,000	74,65,000	72,70,000
Other sections of the Eastern Bengal System	...	...		37,77,000	39,85,000	41,87,000
Total Eastern System				1,10,00,000	1,14,50,000	1,14,57,000
Tirhoot	...	...		20,61,000	22,00,000	21,12,000
Nalhati	...	...		1,01,000	1,01,000	1,04,000
Total				1,31,62,000	1,37,51,000	1,36,73,000
EXPENDITURE—						
Eastern Bengal	...	...		33,50,000	33,15,000	31,01,000
Other sections of the Eastern Bengal System	...	...		17,50,000	17,35,000	20,02,000
Total Eastern System				51,00,000	50,50,000	51,03,000
Tirhoot	...	...		9,55,000	9,55,000	9,06,000
Nalhati	...	...		76,000	76,000	76,000
Total				61,31,000	60,81,000	60,85,000
NET RECEIPTS—						
Eastern Bengal	...	...		38,73,000	41,50,000	41,69,000
Others Sections of the Eastern Bengal System	...	...		20,27,000	22,50,000	21,85,000
Total Eastern System				59,00,000	64,00,000	63,54,000
Tirhoot	...	...		11,06,000	12,45,000	12,06,000
Nalhati	...	...		25,000	25,000	28,000
Total				70,31,000	76,70,000	75,88,000
Deduct excess of net receipts of the Eastern Bengal over the contract assignment of 30 lakhs...				8,73,000	11,50,000	11,69,000
Total Provincial				61,58,000	65,20,000	64,19,000

The total Provincial gross receipts amounted to Rs. 1,25,04,000, thus:—

	Rs.
From the Eastern Bengal	72,70,000
Less excess over the contract assignment	11,69,000
	<hr/>
From other Sections of the Eastern Bengal System ...	61,01,000
Tirhoot	41,87,000
Nalhati	21,12,000
	<hr/>
Total ...	1,25,04,000
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14. *Irrigation—Major Works.*—The original estimate of Rs. 13,58,000 under this head was increased to Rs. 14,44,000 in the revised estimate, but the actuals amount to Rs. 15,21,000. The excess has been general, but is most marked on the Orissa and Sone projects.

15. *Civil Works.*—The receipts in charge of the Public Works Department were originally estimated at Rs. 3,75,000, but owing to the sale of the Burrakur Iron Works, and to the Akra Brick Factory having been leased out, a reduction was anticipated, and the revised estimate was placed at Rs. 2,42,000. The actual result has been better than this by Rs. 11,000, owing to the apportionment of the sale proceeds of the Burrakur Iron Works between Imperial and Provincial Funds having been made on the basis of the actual capital outlay to end of 1889-90 instead of on the outlay to end of 1888-89 as originally made.

EXPENDITURE.

16. *Land Revenue.*—The estimate of the Local Government was raised by the Government of India by Rs. 12,000, in order to accord with the survey estimates passed in Finance and Commerce Department Resolution No. 736, dated the 12th February 1890. The latest information shows that the total expenditure under this head is not less than Rs. 35,67,000, and this figure has been taken as the revised estimate for 1889-90.

17. *Salt.*—The original estimate, amounting to Rs. 22,000, was raised by Rs. 67,000 to provide for the cost of Kilby's patent scales for the weighment of salt, the introduction of which into the Port of Calcutta was sanctioned by Government in July 1889. But as Rs. 15,685 could only be spent on this account in 1889-90, the estimate has been reduced to Rs. 46,000, which is the amount reported to have been actually spent during the year.

18. *Forests.*—The Government of India have reduced the estimate of the Local Government under this head from Rs. 4,50,000 to Rs. 4,10,000. The expenditure amounts to Rs. 3,90,000, and the revised estimate of the Provincial share has been placed at Rs. 1,95,000.

19. *General Administration.*—There was larger expenditure under "Commissioners" than had been provided for in the revised estimate, and the total estimate now stands at Rs. 16,16,000 against Rs. 15,93,000, the estimate passed by the Government of India.

20. *Law and Justice.—Courts of Law.*—The estimate of the Local Government under "Civil and Sessions Courts" was raised by the Government of India by Rs. 29,000 with reference to later actuals than were available when the estimate was submitted by this Government. The actual charges under the heads "High Court," "Law Officers," "Civil and Sessions Court," and "Criminal Courts" exceeded the estimates, and the total expenditure is not less than Rs. 81,58,000.

21. *Jails.*—The increase under "Jail Manufactures" was attended with a corresponding increase under receipts. The revised estimate now stands at Rs. 19,00,000 against Rs. 18,20,000 passed by the Government of India.

22. *Marine.*—There has been an increase of expenditure under “Purchase and hire of ships and vessels” and “Purchase of marine stores and coal for the building, repairs, and outfit of ships and vessels.” The total charges are Rs. 12,03,000 against Rs. 11,48,000, the estimate passed by the Government of India.

23. *Education.*—There was an increase of expenditure under “Inspection” and “Scholarships,” and the total expenditure is Rs. 24,94,000 against Rs. 24,73,000 passed by the Local Government.

24. *Stationery and Printing.*—The value of “Stationery supplied from Central Stores” in 1889-90 amounts to Rs. 5,07,000 against Rs. 5,30,000 provided for in the estimate of the Government of India. The revised estimate of total expenditure has been reduced from Rs. 10,13,000 to Rs. 9,87,000.

25. *Miscellaneous.*—The revised estimate now adopted amounts to Rs. 2,73,000 against Rs. 2,19,000 passed both by the Government of India and the Local Government. The increase has been under the heads of “Subscriptions to periodicals,” “Donations for charitable purposes,” and “Miscellaneous and unforeseen charges.”

26. *Famine Relief.*—A lump grant of Rs. 3,75,000 was provided in the estimate under this head. The adjustment of charges between Provincial and Local Funds, which has been reported to Government, shows a debit of only Rs. 1,40,000 to Provincial, and this figure has been provisionally adopted as the approximate expenditure on this account.

27. *Construction of Railways.*—It was anticipated, when both the budget and the revised estimates were passed, that a net credit for Rs. 2,000 would be given to the Capital account of the Kawnia and Dharla State Railway, but the debits to “Capital” on account of the coal purchased for this section more than absorbed the credits arising out of the issue of stores to “Revenue.”

28. *Irrigation—Major Works.*—The “Working expenses” of these works amounts only to Rs. 13,56,000 against Rs. 14,36,500, which was provided in the departmental estimate.

29. *Minor works.*—The latest information shows that the grant provided for expenditure on Capital account of the Orissa Coast Canal and the grant for Agricultural works could not be fully utilized within the year. The total expenditure amounts only to Rs. 14,19,000 against Rs. 16,96,000, the estimate passed by the Government of India.

30. *Civil works.*—The expenditure in charge of the Public Works Department shows an increase of Rs. 1,46,000 over the final grant, which is mainly due to the adjustment of the value of iron girders supplied by the Port Storekeeper, Calcutta, for the Mahanuddy bridge, to the Darjeeling hill cart road, and to roads in the Chota Nagpore Division.

31. *Contributions.*—The revised estimate of contributions in aid of Incorporated Local Funds for the year was Rs. 8,00,000, but the total amount drawn amounts to Rs. 11,83,000. The increase is mainly due to the payment of arrear contributions to District Funds for 1887-88 and 1888-89. The Accountant-General has been instructed to take steps to prevent the recurrence of such arrears in future, and to see that the fixed annual grants to District Boards are regularly paid at the commencement of the year for which they are due, and not deferred till applications are made for them.

32. *Closing balance.*—According to the revised estimates now adopted, the closing balance of the past year amounts to Rs. 37,87,000 against Rs. 35,39,000 anticipated by the Government of India when passing the estimate for the current year.

Part III.

BUDGET ESTIMATE, 1890-91.

33. The Lieutenant-Governor has already in separate Resolutions reviewed the estimates of receipts and expenditure for the current year under each head of account. Later information, however, has led to a modification of these in some respects. The following table shows the original budget of the Local Government, the figures accepted by the Government of India, and the estimates which the Lieutenant-Governor has finally resolved to adopt :—

To be substituted for pages 2165—2168
the Supplement to the *Calcutta Gazette*,
dated 29th October 1890.

RECEIPTS.	Estimate of Government of Bengal.	Estimate passed by the Government of India.	Estimate now adopted.	EXPENDITURE.	Estimate of Government of Bengal.	Estimate passed by the Government of India.	Estimate now adopted.
Balance	Rs. 19,80,000	Rs. 38,39,000	Rs. 37,87,000		Rs.	Rs.	Rs.
Heads of Revenue—				Direct demand on the revenue—			
1. Land Revenue	97,28,000	96,40,000	98,70,000	1. Refunds and drawbacks	1,39,000	1,39,000	1,39,000
{ Proper				2. Assignments and compensations	1,53,000	1,53,000	1,53,000
{ Adjustment	-2,10,000	-10,78,000	-10,90,000	3. Land Revenue	86,16,000	86,59,000	86,38,000
2. Salt	1,00,000	1,00,000	1,30,000	4. Salt	60,000	60,000	83,000
3. Stamps	1,06,60,000	1,06,60,000	1,06,00,000	5. Stamps	3,49,000	3,44,000	3,45,000
4. Excise	25,50,000	25,50,000	20,00,000	6. Excise	1,55,000	1,55,000	1,61,000
5. Provincial Rates	42,95,000	42,95,000	42,95,000	7. Provincial Rates	3,18,000	3,18,000	3,49,000
6. Customs	50,000	50,000	50,000	8. Customs	5,50,000	5,50,000	5,54,000
7. Assessed Taxes	10,75,000	10,75,000	10,75,000	9. Assessed Taxes	90,000	90,000	90,000
8. Forests	8,85,000	8,85,000	8,78,000	10. Forests	2,23,000	2,23,000	2,23,000
9. Registration	6,75,000	6,75,000	5,75,000	11. Registration	3,11,000	3,11,000	3,11,000
Total	3,01,57,000	2,93,92,000	2,93,79,000	Total	59,93,000	60,48,000	61,64,000
10. Interest	1,59,000	1,59,000	1,44,000	12. Interest on Ordinary Debt	1,22,000	1,08,000	1,08,000
11. Post-office, Telegraph, and Mint—				13. Post-office, Telegraph, and Mint—			
15. Telegraphs	1,000	1,000	1,000	16. Telegraphs	1,000	1,000	1,000
12. Salaries and expenses of Civil Department—				14. Salaries and expenses of Civil Department—			
18. General Administration	13,66,000	15,63,000	15,82,000	18. General Administration	13,66,000	15,63,000	15,82,000
13. Law and Justice—				19. Law and Justice—			
Courts of Law	7,84,000	7,84,000	8,00,000	Courts of Law	7,84,000	7,84,000	8,00,000
Jails	8,32,000	8,37,000	10,12,000	Jails	8,32,000	8,37,000	10,12,000
Police	4,34,000	4,34,000	4,34,000	20. Police	4,34,000	4,34,000	4,34,000
Marine	8,70,000	8,70,000	8,40,000	21. Marine	8,70,000	8,70,000	8,40,000
Education	5,69,000	5,69,000	5,69,000	22. Education	5,69,000	5,69,000	5,69,000
Medical	1,40,000	1,40,000	1,40,000	23. Medical	1,40,000	1,40,000	1,40,000
Scientific and other Minor Departments	1,41,000	1,41,000	1,41,000	24. Scientific and other Minor Departments	1,41,000	1,41,000	1,41,000
Total	37,70,000	37,81,000	39,42,000	Total	2,30,62,000	2,20,98,000	2,34,11,000
14. Receipts in aid of Superannuation	80,000	80,000	1,31,000	Miscellaneous—			
15. Stationery and Printing	1,65,000	1,65,000	1,03,000	25. Superannuation, &c.	14,47,000	14,47,000	14,70,000
16. Miscellaneous	7,71,000	7,71,000	7,71,000	26. Stationery and printing	10,31,000	10,31,000	10,31,000
Total	9,92,000	9,92,000	10,67,000	27. Miscellaneous	2,46,000	2,46,000	2,51,000
17. State Railways (gross earnings)—				Total	27,24,000	27,24,000	27,52,000
Eastern Bengal State Railway	63,60,000	63,60,000	63,60,000	Famine Relief and Insurance—			
Other Railways	69,61,000	69,61,000	69,61,000	28. Famine Relief	1,00,000	1,00,000	1,00,000
Total	1,24,11,000	1,27,01,000	1,27,01,000	29. Construction of Railways	25,000	25,000	25,000
18. Major Works (direct receipts)	14,50,000	14,50,000	14,50,000	Railways (Revenue account)—			
19. Minor Works and Navigation—				30. State Railways—			
By Public Works Department	8,33,000	8,33,000	8,00,000	Working expenses { Eastern Bengal State Railway	33,60,000	33,60,000	33,60,000
By Civil Department	1,02,000	1,02,000	1,02,000	Interest on debt	28,14,000	28,20,000	28,20,000
Total	23,84,000	23,94,000	23,62,000	Subsidized Companies, Land, &c.	35,43,000	35,75,000	35,75,000
20. Contributions				Miscellaneous Railway expenditure	5,000	5,000	16,000
Total	5,02,59,000	4,97,59,000	4,90,65,000	Total	97,96,000	98,29,000	98,40,000
GRAND TOTAL	5,24,39,000	5,33,39,000	5,37,52,000	GRAND TOTAL	3,22,59,000	5,33,39,000	5,37,52,000
				Provincial surplus (+) or deficit	+ 82,000	- 5,00,000	- 12,51,000

34. *Land Revenue.*—The total collections in 1889-90 amount to Rs. 3,89,05,000, and the estimate for 1890-91 has been placed at Rs. 3,82,79,000. The collections in the first five months of the current year amounted to Rs. 74,72,000 against Rs. 77,50,000 obtained in the corresponding period of last year. These figures do not justify any change in the estimate of total collections, but the Provincial assets from the 10 per cent. on collections on Government estates, which were estimated at Rs. 3,60,000, with reference to the actuals of 1888-89, amounting to Rs. 3,26,000, amounted to Rs. 4,14,000 in 1889-90,

and as the receipts in the first four months of the current year show an increase of Rs. 13,000 over those of the corresponding period of last year, there is no reason why the estimate should be placed at a lower figure than four lakhs. The estimate on this account has accordingly been raised to Rs. 4,00,000. The Provincial share of the total revenue will therefore be one-fourth of (3,82,79,000—4,00,000)+4,00,000, or Rs. 98,70,000. The adjustments between Imperial and Provincial will probably result in a net debit of Rs. 10,99,000 against Provincial as shown below:—

	Annual estimate of the Government of Bengal.	Estimate of the Government of India.	Estimate now adopted.
	Rs.	Rs.	Rs.
Fixed contribution to Imperial ...	—6,90,000	—6,90,000	—6,90,000
Special benevolence to Imperial ...	.....	—10,00,000	—10,00,000
Hidgellie Tidal Canal ...	+2,10,000	+2,10,000	+2,10,000
Interest on exchange, Railways ...	+93,000	+93,000	+93,000
Inter-provincial adjustments ...	—82,000	+30,000	+30,000
Adjustment for Shajehanpore rum	+17,000	+24,000	+24,000
Half the cost of the Special Branch of the Police Office ...	+5,000	+5,000	+5,000
Adjustment for ganja exported ...	—44,000	—25,000	—25,000
Custom House Appraisers ...	+8,000	+8,000	+8,000
Conservation of ancient monu- ments ...	+1,000	+1,000	+1,000
Petroleum wharf establishment at Budge-Budge ...	+4,000	+4,000	+4,000
Eastern Bengal Railway Police ...	+41,000	+41,000	+41,000
Political charges ...	+21,000	+21,000	+21,000
Calcutta Police ...	+2,00,000	+2,00,000	+2,00,000
Forest survey charges ...	—3,000	—3,000	—3,000
New method of testing distilla- tion of imported spirits ...	+3,000	+3,000	+3,000
Adjustment on account of the new classification of rewards out of criminal fines in excise and stamp cases ...	.....	.....	—30,000
For the up-keep of the <i>Rhotas</i> ...	.....	.....	9,000
Total ...	—2,16,000	—10,78,000	—10,99,000

The difference between the estimate of the Government of India and that now adopted is due to a credit for Rs. 9,000 afforded to Provincial for the up-keep of the *Rhotas*, and to a debit of Rs. 30,000 on account of the rewards paid out of criminal fines in excise and stamp cases being now adjusted departmentally, instead of, as formerly, under the wholly Provincial head of "Law and Justice."

35. *Salt*.—The receipts under this head during the first four months of the current year amounted to Rs. 43,000 against Rs. 39,000 obtained in the corresponding period of 1889-90. The total receipts in 1889-90 amount to Rs. 1,24,000; and as some further increase is anticipated when the railway siding and other works now under construction in the Sulkeah Salt Golahs have been completed, the estimate for 1890-91 has been raised from Rs. 1,00,000 to Rs. 1,30,000.

36. *Stamps*.—The total receipts from stamps amount to Rs. 1,42,38,000 in 1889-90 against Rs. 1,42,00,000, the revised estimate for the year. The details furnished in the district returns show that, while the receipts from the sale of "General stamps," including duties and penalties, increased by Rs. 1,14,000 in the first five months of the current year over those of the corresponding period of last year, the proceeds from the sale of "Court-ree stamps" and "Plain paper" diminished by Rs. 2,61,000. The increase under non-judicial stamps and the decrease under court-fee stamps have not been confined to one month, but have been spread over all the months except June, in which the receipts from court-fees were nearly equal in two years. A part of the latter decrease is probably due to the reduction of the rate of copying

fees from 4 annas to 3 annas per folio which has been sanctioned with effect from 1st April 1890, but an allowance of one lakh was made for this in the estimate originally sanctioned. These figures give some cause for anxiety as to the continued expansiveness of this source of revenue, and they certainly tend to show that it will not be safe to adhere to the original estimate of Rs. 1,42,00,000. The estimate under "General stamps" will be raised from Rs. 39,37,000 to Rs. 42,00,000, and that under "Court-fee stamps" reduced from Rs. 1,02,63,000 to Rs. 98,00,000, and the total placed at Rs. 1,40,00,000. The Provincial share will amount to Rs. 1,05,00,000.

37. *Excise.*—The estimate of total revenue under this head amounts to Rs. 1,02,00,000. The Comptroller-General's statements show that the actual receipts in 1889-90 amounted to Rs. 1,04,75,000. The results of the recent settlement of excise shops for 1890-91 show a falling off of nearly two lakhs in "License fees" as compared with the last year, but the details furnished in the district returns show that, while the receipts from "License fees" diminished by Rs. 1,77,000 in the first five months of the current year, the receipts under other heads increased by Rs. 1,55,000. In view of these figures, and looking to the falling off of revenue in the Patna Division in particular, the Lieutenant-Governor considers that it will not be safe to place the estimate for the current year at a higher figure than Rs. 1,04,00,000. The Provincial share will be Rs. 26,00,000.

38. *Customs.*—The revised estimate of Provincial receipts under this head for 1889-90 now stands at Rs. 55,000. The receipts during the first four months of the current year show an increase of Rs. 2,000, and there is no reason to anticipate any falling off. The estimate will be raised from Rs. 50,000 to Rs. 55,000.

39. *Assessed Taxes.*—The Government of India placed both the revised estimate for 1889-90 and the estimate for 1890-91 at Rs. 40,50,000. The receipts in 1889-90 amount to Rs. 41,66,000. The estimate for the current year can safely be raised to Rs. 41,50,000. The Provincial share will stand at Rs. 20,75,000.

40. *Forests.*—The estimate of total receipts has been reduced by Rs. 14,000, and a corresponding reduction has been made on the expenditure side.

41. *Interest.*—The Government of India have accepted the revised estimate of loans and advances for 1889-90 as passed by this Government, but have made a lump deduction of Rs. 6,85,000 from the provision made under the head of "Loans to municipalities and other local bodies" for 1890-91. This deduction will reduce the estimate of Provincial receipts from Interest by Rs. 15,000, and the amount payable to the Imperial Government by Rs. 14,000. The estimate of Provincial receipts will therefore be reduced from Rs. 1,59,000 to Rs. 1,44,000.

42. *Law and Justice—Courts of Law.*—The total receipts under this head in the first four months of the current year show an increase of Rs. 29,000 over those of the corresponding period of last year. The approximate actuals for 1889-90 were Rs. 8,03,000. The estimate for the current year will be raised from Rs. 7,84,000 to Rs. 8,00,000.

43. *Jails.*—The Inspector-General of Jails originally estimated the total receipts for the current year at Rs. 8,32,000, and this was accepted by the Local Government. This estimate has since been raised by Rs. 1,80,000 on account of the anticipated sale proceeds of castor-oil to be supplied to the Eastern Bengal State Railway, a corresponding additional grant being made on the expenditure side for the purchase of seed. The estimate now stands at Rs. 10,12,000.

44. *Marine.*—The original estimate under this head amounts to Rs. 8,76,000 against Rs. 8,54,000, the latest estimate for 1889-90. The receipts in the first four months of the current year show a decrease of Rs. 11,000 as compared with those of the corresponding period of last year. The Lieutenant-Governor does not consider it safe to take more than Rs. 8,40,000 as the estimate for the current year.

45. *Medical.*—The estimate of receipts under this head amounts to Rs. 1,40,000 against Rs. 1,46,000, the revised estimate as it now stands. The receipts from Medical College and School fees in the first four months of the current year show a small increase, and there is no reason to suppose that the total receipts will be less than those of the preceding year. The estimate will accordingly be raised to Rs. 1,46,000.

46. *Superannuations.*—The Provincial receipts under this head consist chiefly of contributions received from officers employed on foreign service. The original estimate for the current year stands at Rs. 56,000 against Rs. 45,000, the latest estimate for 1889-90. The increased provision is due to the anticipated increase in receipts, with reference to the Government order directing that contributions shall be levied on the salaries of employes of Municipalities and District Boards whose services have been declared to be qualifying for pension. The estimate will now be further raised by a sum of Rs. 75,000 on account of arrear contributions to be recovered from the salaries of employes under Road Cess and Educational officers transferred to the District Boards.

47. *Railways.*—The estimates of State Railways as passed by the Government of India have been compared below with the latest estimates for 1889-90 and those originally adopted by this Government for the current year:—

		Estimate, 1890-91.		Latest estimate, 1889-90.
		Bengal.	India.	
RECEIPTS—				
		Rs.	Rs.	Rs.
Eastern Bengal	...	72,00,000	75,10,000	72,70,000
Other branches	...	88,00,000	39,90,000	41,87,000
Tirhoot	...	21,50,000	22,50,000	21,12,000
Nalhati	...	1,01,000	1,01,000	1,04,000
Total	...	1,32,51,000	1,38,51,000	1,86,73,000
EXPENDITURE—				
Eastern Bengal	...	33,60,000	33,60,000	31,01,000
Other branches	...	17,40,000	17,40,000	20,02,000
Tirhoot	...	9,94,000	10,00,000	9,06,000
Nalhati	...	80,000	80,000	76,000
Total	...	61,74,000	61,80,000	60,85,000
NET RECEIPTS—				
Eastern Bengal	...	38,40,000	41,50,000	41,69,000
Other branches	...	20,60,000	22,50,000	21,85,000
Tirhoot	...	11,56,000	12,50,000	12,06,000
Nalhati	...	21,000	21,000	28,000
Total	...	70,77,000	76,71,000	75,88,000
Deduct excess of net receipts of the Eastern Bengal Railway over the contract assignment of 30 lakhs		8,40,000	11,50,000	11,69,000
Total Provincial	...	62,37,000	65,21,000	64,19,000

The latest returns from the Examiner of Accounts show that the receipts of the Eastern Bengal System during the first five months of the current year were more than 2 lakhs in excess of those during the corresponding period of the past year. But against this increase must be taken into account the falling off of revenue owing to the interruption of traffic, though temporary, occasioned by the floods on both the Northern Bengal and Eastern Bengal State Railways. The decrease in the first week of September amounted to about Rs. 56,000. The management of the Tirhoot State Railway has been made over to the Bengal and North-Western Railway Company under an agreement from the 1st July 1890,

and there is no later information to justify any alteration of the estimate passed by the Government of India. This estimate of net receipts amounting to Rs. 65,21,000, showing an increase of Rs. 1,02,000 over the latest estimate for 1889-90, will be retained.

48. *Irrigation—Major Works.*—The revised estimate under this head for 1889-90 was originally placed at Rs. 14,44,000, and the estimate for the current year at Rs. 14,50,000. The total receipts in 1889-90 amount to Rs. 15,21,000, but the collections in the first three months of the current year were Rs. 2,22,000 against Rs. 2,92,000 realized in the same period of 1889-90. In view of the fluctuating character of these receipts, the Lieutenant-Governor does not consider it safe to alter the estimate passed by the Government of India.

49. *Minor Works and Navigation.*—The returns from the Examiner of Public Works Accounts show that the receipts in the first three months of the current year amounted to Rs. 1,37,000 against Rs. 1,33,000 realized in the corresponding period of last year. The total receipts in 1889-90 amounted to Rs. 7,89,000. It will not be safe to place the estimate for the current year at a higher figure than Rs. 8,00,000. The estimate will accordingly be reduced by Rs. 32,000.

EXPENDITURE.

50. *Land Revenue.*—The Government of India have raised the original estimate of total expenditure under this head by Rs. 23,000 to accord with the estimates of the Surveyor-General passed by that Government in the Finance and Commerce Department Resolution No. 736, dated 12th February 1890. The estimate will further be increased by Rs. 2,000 for the purchase of an elephant for the Chittagong Division, for which no provision was made in the budget. The estimate of total expenditure, which would thus have risen from Rs. 36,16,000 to Rs. 36,41,000, will be reduced by Rs. 3,000, the amount transferred to the Public Works Department, Irrigation Branch, for the maintenance of the Kutubdia embankments in the Chittagong Division. The estimate will then stand at Rs. 36,38,000.

51. *Salt.*—The original estimate under this head, amounting to Rs. 30,000, was raised by Rs. 36,000 for the construction of pontoons on the river frontage of the Sulkea Salt Golahs, and of a shunting line directly connecting the golahs with the East Indian Railway. Since then a regrant of Rs. 51,425 for the purchase of Kilby's scales has been sanctioned, and an additional grant of Rs. 2,861 has been made for the completion of the sidings. The charge for pontoons, amounting to Rs. 28,210, has since been transferred to the Public Works Department. The estimate has provisionally been placed at Rs. 93,000.

52. *Stamps.*—The Government of India have raised the Provincial expenditure under this head by Rs. 25,000, chiefly under "Stamp paper supplied from Central Stores," to accord with the figures adopted in the India estimates. It has recently been decided that the rewards for the prevention or detection of offences against the laws of the Excise and Stamp Departments should be debited to "Excise" and "Stamps" respectively, and not to "Law and Justice." The new classification has come into force from the 1st April 1889, and to meet the additional liability thrown on the Imperial revenues by the change, Rs. 28,859 and Rs. 30,000 have been deducted from the Provincial share of Land Revenue for 1889-90 and 1890-91 respectively. The rewards in stamp cases are, however, comparatively few, and a grant of Rs. 1,000 will probably be sufficient for the purpose. On the other hand, it is probable that there will be some reduction under discount of stamps. On the whole, the Lieutenant-Governor considers that a grant of Rs. 3,85,000 on Provincial account against Rs. 3,83,000, the latest estimate for 1889-90, will suffice, and this figure has accordingly been now adopted.

53. *Excise.*—The original estimate under this head, amounting to Rs. 5,79,000, was subsequently raised by Rs. 40,000 to meet the cost of the construction of new distillery buildings required for the introduction of the central distillery system throughout the whole of the Presidency, Burdwan, Dacca, and Orissa.

Divisions. A provision of Rs. 39,000 has also been added under the head for rewards in excise cases, a corresponding reduction being made under "Law and Justice." The total estimate will therefore stand at Rs. 6,58,000, and the Provincial share at Rs. 1,64,000.

54. *Provincial rates.*—The estimate for the current year is thus compared with the latest estimate for 1889-90:—

	Latest estimate, 1889-90.	Estimate, 1890-91.
	Rs.	Rs.
Public Works Cess establishment ...	25,000	48,000
Road Cess establishment ...	3,12,000	2,67,000
	<hr/>	<hr/>
Total ...	3,37,000	3,15,000
	<hr/>	<hr/>

In view of the approximate actuals for 1889-90, the estimate under the head of Road Cess establishment has been raised to Rs. 3,00,000, and the total placed at Rs. 3,48,000.

55. *Customs.*—The estimate under this head will be raised by Rs. 4,181, to provide for the cost of the establishment and contingencies required by the Collector of Customs, Calcutta, for the purpose of working Kilby's patent scales for the weighment of salt in the Port of Calcutta. It will now stand at Rs. 5,54,000.

56. *Forests.*—The Government of India have raised the estimate of expenditure under this head by Rs. 14,000, to provide for the forest survey charges. Against this increase there has been a reduction of a like amount as explained in paragraph 40 above. The Provincial share of the estimate amounts to Rs. 2,23,000.

57. *Interest on Ordinary Debt.*—As explained in paragraph 41, the estimate of expenditure will be reduced from Rs. 1,22,000 to Rs. 1,08,000, as passed by the Government of India.

58. *General Administration.*—The estimate of the Local Government includes a provision of Rs. 3,000 for the cost of two elephants for the Superintendent of the Tributary Mehals, Orissa. The Secretary of State has recently sanctioned the appointment of an Additional Commissioner for the Patna Division for nine months on Rs. 2,500 per mensem, and a provision of Rs. 16,000 has been made for this purpose. The estimate will therefore stand at Rs. 15,82,000.

59. *Law and Justice—Courts of Law.*—The estimate under this head will be raised by Rs. 18,000 to provide for the salary of six additional Munsifs sanctioned since the estimate was passed. Against this increase the estimate will be reduced by Rs. 40,000, being the amount transferred to "Stamps" and "Excise" on account of rewards for the prevention and detection of offences against the laws of the Stamps and Excise Departments. The total estimate will stand at Rs. 82,41,000.

60. *Jails.*—The difference of Rs. 3,000 between the original estimates of this Government and the Government of India is under the sub-head "Clothing and Bedding" under District Jails. The estimate has further been increased by Rs. 1,80,000, to provide for the purchase of castor-seed. Against this increase a sum of Rs. 2,124 has been deducted and made over to the Public Works Department for the construction of Jailors' quarters at Rungpore. The grant now stands at Rs. 20,70,000.

61. *Police.*—The Government of India have raised the estimate of this Government by Rs. 22,000. The reductions approved in the Resolution of the Home Department, No. 742, dated the 28th October 1889, have not been entirely carried out. The approximate actuals for 1889-90 were Rs. 52,99,000, and the actuals of the first four months of the current year do not show any falling off in expenditure as compared with those of the corresponding period of last year. In view of these figures, the Lieutenant-Governor does not consider it safe to place the estimate for the current year at a lower figure than Rs. 52,80,000.

62. *Marine*.—The original estimate under this head, amounting to Rs. 8,86,000, includes a provision of Rs. 10,000 for grant to the Balasore Port Fund. As grants of Rs. 20,000 have been sanctioned to each of the "Balasore" and "Cuttaek and Pooree" Port Funds, the estimate will be raised by Rs. 30,000. It will be further increased by Rs. 9,000 to provide for the up keep of the *Rhotas*, which has now been transferred to Provincial with an assignment of a like amount. The grant will stand at Rs. 9,25,000.

63. *Education*.—The estimate under this head has been reduced by Rs. 6,278, and a grant of a corresponding amount has been made to the Public Works Department for additions and alterations to the Gya Zillah School building. The grant now stands at Rs. 24,61,000.

64. *Medical*.—The expenditure under this head for 1890-91 has been estimated at Rs. 15,11,000 against Rs. 15,27,000, the latest estimate for 1889-90. The charges under Medical establishment show however no Reduction and the estimate will, therefore, be raised to Rs. 15,27,000. The estimate does not include any provision for the salary of the Sanitary Engineer and the establishment and other contingent charges of the Sanitary Board now formed under the orders of the Government of India. An Engineer has been appointed with a salary of Rs. 700 and an allowance of Rs. 100 per mensem and a small establishment, costing Rs. 39 per mensem, has been sanctioned. A provision of Rs. 7,000 will be made on this account. The total grant will stand at Rs. 15,34,000.

65. *Superannuations*.—The Provincial expenditure under this head in past years has been as follows:—

				Rs.	Increase. Rs.
1884-85	...	...	...	11,99,000	.....
1885-86	...	...	...	12,39,000	40,000
1886-87	...	...	...	12,68,000	29,000
1887-88	...	...	...	12,80,000	12,000
1888-89	...	...	...	13,70,000	90,000
1889-90	...	...	...	14,36,000	66,000
Estimate, 1890-91	...	...	...	14,47,000	11,000

The increase in the last five years amounted to Rs. 2,37,000, or an average of Rs. 47,000 a year. The actuals of the first four months of the current year show an increase of about Rs. 13,000 as compared with the corresponding period of last year. In view of these figures, it will not, be safe to place the estimate for the current year at a lower figure than Rs. 14,70,000.

66. *Miscellaneous*.—The estimate of Rs. 2,46,000 under this head has been raised to Rs. 2,51,000 to provide for an increased grant of Rs. 3,600 to the St. Mary's House of Charity Building Fund, and for the regrant of Rs. 1,352, being the unexpended balance of the Government grant on account of the passage-money of Clewer sisters, to the Honorary Secretary, Lady Canning Memorial Fund.

67. *Railways—Subsidized companies, land, &c.*—The original estimate of Rs. 5,000 under this head represents the capitalized value of the abatement of Government revenue to be credited to Government and debited to the Provincial revenues under the head "Tarkessur Railway." The estimate does not provide for the cost of land required for the construction of a metre-gauge railway from Julpigoree to the tea districts in the Western Dooars and for establishment required for the demarcation of land. It has been decided to meet the charge from Provincial revenues, and the Board of Revenue have been asked for a rough estimate of the cost of land. In the meantime a provision of Rs. 11,000 will be made on this account.

68. *Minor Works and Navigation*.—The estimate of the Government of India, amounting to Rs. 17,33,000, will be raised by Rs. 16,921, the amount added to the grant for expenditure by the Collector of Gya on irrigation in Government estates, and by Rs. 3,000 for the adjustment of expenditure on Kutubdia embankments in the Chittagong Division under this head. The total grant thus stands at Rs. 17,53,000.

69. *Civil Works by Public Works Department.*—The grant under this head was originally fixed at Rs. 28,97,000. This has subsequently been raised to Rs. 30,20,000 by the following additions and deductions :—

	Rs.	Rs.
As originally fixed		28,97,000
Add—		
Grant for the telegraph office at Budge-Budge ...	17,478	
Grant for the construction of pontoons (Rs. 28,210), crane and other works (Rs. 3,750) in the Sulkea Salt Golahs	31,960	
Grant for additions and alterations to the Gya Zillah School building	6,278	
Grant for the construction of a metalled road from Matigurah to Nuxulbari	60,000	
Grant for the construction of Jailors' quarters in the Rungpore Jail	2,124	
Grant for the repairs of the river bank in proximity to the Nawab's Palace at Moorshedabad	25,000	
Grant for the repairs of the roads from Buxa and Santrabari to Chunabatti	3,000	
	—	1,45,840
		30,42,840
Deduct—		
Grant to the District Board of Gya	20,000	
„ Durbhunga Municipality	2,426	
	—	22,426
		30,20,414
Or in round numbers		30,20,000

A further grant of four lakhs will now be made to enable the Public Works Department to undertake urgent works, and especially to defray the cost of repairs and maintenance of the roads in the Darjeeling district where considerable damage has been done by the recent rains. The total grant will now stand at Rs. 34,20,000.

70. *Civil Works by Civil Department.*—The estimate under this head was originally passed for Rs. 88,000. The estimate has since been raised by Rs. 2,000 to meet the Government contribution to the Mahomedan Burial Board. It will further be raised by $(2,426 + 1,653 =)$ Rs. 4,079 for grants already sanctioned to the Durbhunga and the Calcutta Municipalities for the maintenance of certain roads formerly under the control of the Public Works Department and the 24-Pergunnahs District Board respectively. The total grant thus stands at Rs. 94,000.

71. *Contributions.*—The original estimate of Rs. 8,30,000 for grants-in-aid of District and other Incorporated Local Funds will be retained.

72. *Closing balance.*—According to the estimate originally passed by this Government, it was expected that the year would close with a credit balance of Rs. 20,32,000. According to the estimates now adopted, the closing balance will be Rs. 25,06,000. The improvement in the resources of the Local Government is chiefly caused by the increase under the head of Railway receipts. When the estimates were submitted to the Government of India by the Financial Department in March last, the figures of the Public Works Department, which were available at the time, showed Rs. 1,22,89,000 and Rs. 1,24,11,000 as the estimated gross receipts for 1889-90 and 1890-91 respectively. A more favourable forecast, based on later information, was submitted to the Government of India direct by that Department, and the estimates, as now finally adopted, amount to Rs. 1,25,04,000 and Rs. 1,27,01,000. The net increase in the two years amounts to Rs. 5,05,000.

ORDER.—Ordered that a copy of this Resolution be submitted to the Government of India, Department of Finance and Commerce, for information.

Ordered also that a copy of the above Resolution be forwarded to the Board of Revenue; to all Commissioners of Divisions; to the Inspectors-General of Civil Hospitals, Police, Jails, and Registration; to the Directors of Public Instruction and Land Records and Agriculture; to the Conservator of Forests; to the Port Officer, Calcutta; to the Superintendents of Botanical Gardens and Government Printing, Bengal, and to all Departments of this Government, for information.

Ordered also that a copy of the above Resolution be forwarded to the Accountant-General, Bengal, for information, with special reference to paragraph 31.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,
Secretary to the Govt. of Bengal.

RESOLUTION ON THE REPORT ON PUBLIC INSTRUCTION IN BENGAL
FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—EDUCATION.

Darjeeling, the 20th October, 1890.

RESOLUTION.

READ—

The Report on Public Instruction in Bengal for the year 1889-90.

The Education Department was in the charge of Sir A. Croft, K.C.I.E., during the year, except for the period of three months in which Mr. C. H. Tawney, C.I.E., acted for him and submitted the annual report for 1888-89. The greater length of the report now submitted than that of last year is in accordance with the wishes of Government that details should be fully examined only in alternate years. But the account furnished of the year's operations is no less interesting than any of the series which for some years past Sir A. Croft and Mr. Tawney have added to the records of the Education Department and of Government. These reports are always highly creditable to the Department of Public Instruction in Bengal. The Lieutenant-Governor has much pleasure in noticing that the present report has been laid before Government by the prescribed date.

2. The total number of pupils under instruction in the educational institutions of all classes only rose by 9,773 in comparison with the previous year. This increase was secured among private as distinguished from public institutions; the latter on the whole showed some decline. The falling off in the number of college students was slight, and, generally speaking, the figures betoken the same eagerness as has been previously noticed on the part of the upper and middle classes of the community to avail themselves of the advantages of education. The chief factor in the decrease of public institutions is to be found in the loss of aided lower primary schools, whereas the gain in the number of private institutions is partly attributable to the discovery of 1,750 elementary Koran schools hitherto unrecorded in the Dacca and Chittagong Divisions, and partly to an increase of elementary indigenous schools. Too much importance must not be attached to the fluctuations in the numbers of the lower primary schools. The indigenous schools of Chittagong, for instance, present endless difficulties in the way of accurate classification, so that primaries disappear only to be counted in another category as Koran schools. The tenure of the lowest fringe, or, to use another metaphor, of the outer circle of these primaries is described as thoroughly precarious and unstable. Hundreds, or even thousands, of these are set up, carry on feebly and intermittently for a period, and then disappear, leaving no trace. The Director has opportunely raised the question whether the country or the cause of education derives any advantage from the expenditure of money on such ephemeral schools, which make no appreciable impression on the ignorance of the rural population. The anxiety of Government to extend elementary education has been constantly declared and is an established principle of the educational policy; but a mere superficial extension, with a view to show larger numbers on the list of pupils, without requiring any depth or conformity with the existing standard, does not commend itself to the Lieutenant-Governor. The money available for primary education is necessarily limited in amount, and it is essential, in the interests of economy and of the really useful schools, that the allotment should be spent with discrimination. Under present circumstances, therefore, while the primary grant remains inexpansive, the consolidation, rather than an unlimited extension, of the primary system appears to be advisable, and the Director's recommendation is therefore accepted that, for the present, admission to the reward examination should be limited to schools that satisfy certain conditions as to number and progress of pupils as determined by inspection *in situ*, and that no school so admitted should be entitled to any reward unless it earns at the examination a certain minimum sum. The progress of education cannot be gauged by the test of numbers alone, on which the changes in the schools of the lowest grade have an effect so disproportionate to their real importance. The increase of 26,909 schools and 672,893 pupils in 10 years undoubtedly represents a real advance in the demand for education.

3. The expenditure as verified by the Accountant-General's figures has again exceeded the sanctioned estimate. The excess of Rs. 51,182 has, however, been balanced to a

Financial results.

great extent by a surplus of Rs. 33,506 over the estimated receipts. After allowing for certain charges to be debited to the Public Works Department, the net deficit is only Rs. 6,295. The explanation offered by the Director deserves consideration. His budget, it appears, was reduced by the Accountant-General by the large sum of Rs. 1,64,000 on account of probable savings, after examination of the actuals of the preceding year, and he was then required to retrench Rs. 30,000 more to assist the financial necessities of Government. The result shows that, when the effect of the probable savings has been thus discounted, it is practically almost impossible for the reduced estimates to bear further curtailment. The Lieutenant-Governor recognises the loyalty with which the Director and the Department have endeavoured to meet the views of Government, and he trusts that vigilance and care may be constantly exercised in keeping down expenditure and in realizing the best possible value for the cost incurred. The total sum spent in Bengal on education of all descriptions, from the highest to the lowest, amounted to Rs. 87,43,000, an increase of Rs. 75,000 over the preceding year. The contribution from public sources declined from Rs. 32,44,000 to Rs. 32,37,000, while private expenditure rose from Rs. 54,24,000 to Rs. 55,06,000. Collegiate, secondary, primary, female, and special education were all more costly than in the previous year, whereas comparative economy was exercised in the item of buildings to the sum of a lakh and a half of rupees. The municipal contributions stand at exactly the same sum, Rs. 83,000, as last year; the Lieutenant-Governor would be glad to hear of their being increased. Steps have been taken to make the figures furnished by the municipalities to the Department correspond with those supplied by them to Government. There are difficulties in the way, it is admitted, but the matter should continue to receive attention.

4. The educational functions delegated to the District Boards constituted under Act III (B.C.) of 1885 include the management of Government primary and middle schools, the distribution of the grant-in-aid allot-

District Boards as controlling agencies.

ment for middle schools under private management, the administration of the primary grant, the conduct of the annual examinations of primary schools for rewards, and the award of lower primary scholarships. The Boards are also authorized to establish and maintain, with the sanction of Government, schools of technical instruction, and some have already taken up this question with interest and energy. The Technical Institute, for example, established by the District Board of Rungpore, has attained considerable success. With the object of defining more clearly the functions of the Boards and their relations to the officers of the Department, revised educational rules under the Act were under consideration and public criticism during 1889-90, and finally promulgated by Government on the 18th April last. Experience has already shown the new rules to be greatly superior to the old. They give somewhat larger powers to the District Boards than they had previously enjoyed, while any departure from the existing system, in regard to the administration of funds or the control of schools, is made conditional on the sanction of Government. The power of the Inspector and his position as a controlling officer are more clearly defined. In accordance with the views of Government, Deputy Inspectors of Schools have in nearly every district been appointed ex-officio members, not only of the District Boards, but also of the Education Committees to which these bodies have generally delegated their ordinary executive duties. The advantages of this plan are already apparent, co-operation and efficiency having often taken the place of friction and mismanagement. The Lieutenant-Governor has again the pleasure of observing that the relations between the Boards and the Deputy Inspectors in the majority of districts are eminently satisfactory. Government must look to the good offices of the authorities in the Burdwan and Orissa Divisions, in which differences have arisen, to put things straight as soon as possible. On the other hand, there are indications that in some places the education work of the District Boards has been allowed to lapse too much into the hands of the Chairman or Vice-Chairman in his executive capacity. While the Lieutenant-Governor allows that there is some force in the excuse that it is ordinarily not easy to arouse any enthusiasm for educational work, except

on such occasions as present opportunities for the exercise of patronage, he desires that the District Boards, through their Education Committees, may be fully consulted in all matters of principle and importance, and that their functions may not be over-ridden by the executive officers. The Director has, in a very proper spirit, as a friendly critic, drawn attention to some shortcomings in the work of certain District Boards. It is through no fault on their part that their educational operations have in some cases been hampered for want of funds, the income from ferries and pounds not having kept pace with their educational requirements. But they must be held responsible for such matters as great delay in the despatch of business, especially in disposing of reward bills and in making up examination results, irregularities in the method of accounting for public money, misapplication of the primary grant, or failure to spend fully the allotments for primary education. These are matters which the District Boards are quite capable of correcting for themselves. It is not a matter for surprise that their control and management of middle schools of various classes is less efficient than when the work was performed by high officers of the Education Department. Sir Alfred Croft rightly observes that this decline in efficiency is part of the necessary price paid for Local Self-Government. The policy of entrusting District Boards with certain educational work, in which the Department has given them its steady support, has been deliberately adopted for reasons which have often been stated, and improvement can only be obtained by perseverance. The transfer of large educational powers to Local, as distinguished from District, Boards appears to have been prematurely attempted in some places.

5. The Circle Inspectors have all done a large amount of inspection duty.

Inspection.

Among the Deputy Inspectors it is noticeable that the average number of days spent on tour varies from 118 in Orissa and 131 in the Chittagong Division to 198 in the Bhagulpore and 203 in the Patna Division. It is not explained why there should be such marked differences between one division and another, and the Director has taken proper notice of the unsatisfactory explanations offered by the three Deputy Inspectors in Orissa for their deficiencies in touring. A change in the system of reckoning the duration of tours makes any comparison with the previous year difficult. During the year the heading "days on tour" in the tabular statement of inspections has been changed to "days on tour outside head-quarters," and it has been ordered that all work done by an officer who returned the same night to his house without overpassing the five-mile limit should be reckoned as head-quarters work. The object of this change has been to frustrate the designs of some officers whose returns of inspection, showing a numerically high average of work, had been secured by the easy device of visiting schools at and near head-quarters with unnecessary frequency. The Lieutenant-Governor entirely concurs with Sir A. Croft that it is the duty of Deputy Inspectors to spend at least 150 days on actual tours within their districts, and that there is no reason why head-quarters schools should be neglected in consequence of the new rule. He will be requested to bring to the notice of Government any cases of its abuse. The inadequacy of the clerical assistance afforded to the Deputy Inspectors is a serious matter. The increased office work thrown on them since the creation of District and Local Boards, and the correspondence that will be entailed by the working of the transfer rules for primary and middle schools, are calculated to diminish their activity as inspecting officers if proper help is not allowed them. This matter has been represented to Government, but, owing to financial considerations, it has been hitherto impossible to apply a remedy. The Director will be desired to resubmit the case. The Sub-Inspectors have for the most part complied with the prescribed minimum of inspection duty, viz. 200 days and 400 schools. But the opinion of superior officers inclines to the view that there is some falling off in efficiency in their work, and that the control formerly exercised by the Department was firmer than that of the District Boards to which the Sub-Inspectors have been transferred. The anomalous position occupied by these officers may partly account for this: they have become the servants of the Boards for their work and their pay, while they are still eligible for promotion to and in the subordinate graded service; they are not under the direct control of the Deputy Inspector, but must necessarily depend largely upon his good opinion and endeavour to work up to his views.

6. During the last three years there has been an increase of nine private collegiate institutions, of which four have sprung into existence in 1889-90. There are now 38 in all, namely, Government 11, municipal 1, aided 8, unaided 18. The increasing demand for such education, and the development of private enterprise, are gratifying. Sir A. Croft strikes the right note when he says that the policy of the day clearly tends more and more towards the concentration of higher educational effort in the Presidency College and the gradual retirement of Government from the outlying colleges, where private enterprise may in time be trusted to take up the work. The number of collegiate students has fallen (for the first time since 1886) from 5,184 to 4,882, the result, it is evident, of fewer passed candidates at the Entrance Examination of 1889 being available to supply the places of those who had left the colleges after taking their degrees or otherwise. The number of successful candidates at the University Examinations again increased, and have for the last three years been as follows:—

			1888.	1889.	1890.
First Arts	...	...	481	629	996
Bachelors of Arts	...	...	323	366	399
Masters of Arts	...	...	43	58	62

The increasing number of Mahomedan candidates is noteworthy, viz. 57 in First Arts as against 21 and 19, 21 in the B.A. against 18 and 12, and 3 Masters of Arts against 1 and 1 in the two preceding years. The percentage of success achieved by the Government colleges was well maintained. The total expenditure upon collegiate education has risen during the year from Rs. 6,38,954 to Rs. 6,91,079, of which Government contributes a fraction over 40 per cent. In the Government colleges the total cost has also risen from Rs. 3,83,365 to Rs. 4,09,955, and the cost to provincial revenues from Rs. 2,30,409 to Rs. 2,52,465. The annual cost of each student in a Government college increased from Rs. 233 to Rs. 244, and the cost of his education to Government from Rs. 140 to Rs. 150. The increase in the Government expenditure is attributed partly to the absence of fewer officers than usual on furlough and partly to the loss of students and their fees—a loss from which all colleges suffered alike. This is borne out by the following figures relating to the entire body of collegiate students:—

			1888.	1889.	1890.
Average cost of each student in a college in					
Bengal	...	...	143	124	138
The Government share thereof	...	...	63	50	55

The college reports bear testimony to substantial progress, and mention cases of liberality of individual benefactors which merit the acknowledgments of Government.

7. Though the total number of secondary schools of all classes has risen from 2,319 to 2,366, i.e. by 2 per cent., the number of pupils has only risen from 2,00,124 to 2,01,452, i.e. by .6 per cent. This absence of corresponding increase in the number of pupils betokens an unnecessary multiplication of schools and an unhealthy competition among them for pupils. The high English and the middle English schools are both more numerous and have more pupils. The decrease in the number of middle vernacular schools is confined to schools managed by Municipal or District Boards or aided by those bodies or by Government. All middle schools in extra-urban tracts, whether maintained or aided by the Department, have been transferred to the control of District and Local Boards under the Government rules, in accordance with the Local Self-Government Act. The expenditure on secondary instruction has varied in the last two years as follows:—

	No. of schools.	Public funds.	Private funds.	Total.
		Rs.	Rs.	Rs.
1888-89	2,319	6,01,539	19,34,506	25,36,045
1889-90	2,366	6,08,294	20,11,672	26,19,966

The "public funds" include the provincial revenues, district funds, and municipal funds. The Education Commission recommended that a periodically

increasing provision be made in the education budget of each province for the expansion of aided institutions, but financial exigencies and the needs of primary education have prevented compliance with this policy. Not only has it been found impossible to aid the several classes of secondary schools up to the maximum percentage allowed by the grant-in-aid rules, but it becomes necessary to scrutinize every application for a renewal of a grant with a view to possible reduction and perhaps cancellation, so as to have money for new grants and still keep within budget limits. Thus there are still 477 schools, viz. 127 high English, 210 middle English, and 140 middle vernacular, which have not been placed upon the aided list. At the University Entrance Examination 2,156 boys passed in 1890 as compared with 1,153 in 1889, the percentage of success being 50 instead of 24. The schools have profited by experience, greater attention has been paid to their studies by the many unsuccessful candidates of the preceding examination, and school-masters have recognised the necessity of more systematic and careful teaching before a candidate has any chance of passing. The continued success of the Dacca Collegiate School and of the Burrisal and Furreedpore Zillah Schools is praiseworthy. The results of the Middle English and the Middle Vernacular Scholarship Examinations were far worse than in the preceding year. The full enforcement of the rule preventing successful candidates of previous years from again attending the examinations in the hope of winning scholarships affords an insufficient explanation. Sir A. Croft hesitates to ascribe this decline to a failure of efficiency under the management of District Boards, and would rather attribute it to the resumption of the more rigorous standard formerly required.

8. Measures have been adopted during the year for giving effect to the views of the Government of India in regard to

Discipline and moral training.

discipline in schools and colleges. The summary of these measures given in the Director's report hardly admits of further condensation, but some of the more important steps taken deserve notice. The establishment of a special training college for teachers has been sanctioned and will be carried out as soon as funds are forthcoming. Principals of Government colleges were addressed on the subject of elevating the moral tone of the students, and the Lieutenant-Governor drew attention to the many opportunities which the study of ethics, and other occasions of college life, afforded to Professors for moral instruction of a character such as to influence their pupils and make a permanent impression. The adoption of suitable moral text-books for schools of all classes has been kept in view: and the example set by the University in preparing a book of selections for the Entrance Examination is to be followed so as to meet the requirements not only of the junior classes of high schools, but also of middle and primary schools through the medium of works in the vernacular. The maintenance in every school of conduct registers, with a record of the head-master's opinion of each boy's character and behaviour, based upon personal knowledge, has been insisted upon, and special attention is to be paid to the entries in the conduct registers of candidates for employment in Government offices. The appointment of monitors under proper safeguards has been authorized, and the system is being tried in institutions to which hostels are attached. More recently these monitors or prefects have been entrusted to a limited extent with punitive powers. A rule has been issued with the object of minimising the evil of having in the same class grown-up lads and little children. The attention of school authorities has been drawn to the necessity of encouraging outdoor games and exercises, on the understanding that no attempt should be made to create a race of acrobats out of our students. Should physical exercise in other forms not be popular, some form of drill is, under the orders of the Government of India, to be compulsory. The Director adds: "It is believed that schools at the sudder stations will find no difficulty in obtaining a person able, if necessary, to give instruction in drill; but such exercises as parallel bars, dumb-bells, cricket, football and indigenous games, including athletic sports, running, jumping, &c., are more to be commended and more likely to be generally acceptable. It has been explained that no reasonable outlay will be refused for the purpose of setting up gymnastic appliances, or of aiding cricket and football clubs." As to discipline, it is admitted that

the more closely a school is connected with the Department, the better is its discipline, and in most cases it is not so much the absence of morality as of good manners in the boys and the junior teachers that requires to be corrected. Defiance of authority, indifference if not positive disrespect, a rude offhand manner, showing no sign of respect to a superior, are sights too common in many schools. Cases of actual misbehaviour towards teachers are said to be happily rare; but they are entirely absent, and the punishment of rustication for a year or more has had a salutary effect. Cases of grave misconduct on the part of teachers themselves are not wanting: and to some extent the unhealthy state of public opinion in regard to discipline gives rise to troubles in school management. The opening of a new school as a money speculation, near an old and established institution, often has the effect of disorganising school discipline in the locality for a time. Sir A. Croft considers that it is very desirable that certificates should be refused to schools that defy the rules of discipline, or to those that are opened in a mere spirit of opposition and rivalry to other non-Government schools, without any prospect of permanence and to the injury of sound education. The Lieutenant-Governor concurs in these views, and will be prepared to receive definite suggestions on the subject. It is very satisfactory to learn that the operation of the transfer rules has been entirely wholesome, and that the revised rules recently issued are likely to check many irregularities that formerly prevailed. Simple rules for the transfer of pupils in middle and primary schools, in the spirit of those approved by Government for high schools, are being framed. Having regard to these measures, the Lieutenant-Governor is of opinion that a very considerable advance has been made in the direction desired by the Government of India. The policy indicated has had his entire concurrence and support; he has not expected anything but gradual improvement, and he looks to the co-operation of all officers of the Department in the endeavour to reform the whole tone of education in Bengal on the lines laid down by the highest authority.

9. The same features which were noticed in the Resolution on the report for 1888-89 have re-appeared this year in the numerical statistics of primary education. There

Primary education.

are more upper primary schools and they have more pupils: but the gain is more than met by the loss in the lower primaries. The net result is a diminution in the number of schools by 449 and of pupils by 12,178, confined to the Presidency, Chittagong, and Orissa Divisions. Excluding payments made to primary schools from the grant-in-aid and circle fund allotments, the expenditure on primary education, controlled by the Department and by District Boards, amounted to Rs. 7,29,851, divided into Rs. 1,46,178 from provincial revenues and Rs. 5,83,673 from district funds. The following statement shows by divisions the administration and expenditure of the primary grant upon aided schools in 1889-90:—

DIVISION.	Allotment.	Expenditure.	Number of schools.	Number of pupils.	Cost per school in rupees.	Cost per pupil in annas.
	Rs.	Rs.				
Presidency ...	91,440	89,346	4,340	126,493	20·5	11·3
Calcutta ...	9,000	9,000	201	9,485	44·7	15·1
Burdwan ...	1,20,124	1,21,144	8,704	218,763	13·9	8·8
Rajshahye ...	73,670	70,093	2,571	65,578	27·2	17·1
Dacca ...	1,00,349	88,884	4,575	113,908	19·4	12·4
Chittagong ...	71,050	67,304	4,547	98,200	14·8	10·9
Patna ...	1,02,913	98,947	5,414	118,054	18·2	13·4
Bhagnipore ...	75,234	69,965	2,540	57,995	27·5	19·3
Chota Nagpore ...	54,767	54,937	1,509	45,567	36·3	19·6
Orissa ...	60,203	59,157	4,758	73,340	12·4	12·9
Orissa Tributary Mehals..	2,800	1,074	67	695	16·03	24·7
Total ...	7,61,550	7,29,851	39,226	928,078	18·6	12·6

The average annual cost was Rs. 18·6 per school and annas 12·6 per pupil, against Rs. 18·3 and annas 12·2 in the preceding year. The lowest cost per pupil was again in Howrah 7·3 annas, and the highest in the Chittagong Hill Tracts, 92 annas, and 55 annas in Darjeeling; but, apart from such abnormal areas, it was about 22 annas in Durbhunga, Shahabad, and Monghyr. The municipal contribution to primary schools for boys and girls was Rs. 20,827 against Rs. 20,303 and Rs. 16,355 of the last two years. It is not satisfactory that the departmental grant, which is administered by the District Committees of non-Board districts, and, as regards Government estates, municipalities and cantonments, by the Magistrate or Deputy Commissioner, shows large savings, while in Board districts a sum of about Rs. 10,000 was unspent. It is important that full use should be made of all grants sanctioned. The lower primary schools have fallen off in two years from 45,505 to 44,146, and the pupils from 991,099 to 960,865. Various causes are assigned for these changes in connection with the vicissitudes of season, which are held largely to account for the loss of 334 schools in Orissa; but the case of Chittagong, where 555 schools of this description have disappeared from the list, is special and is attributed to inaccurate classification. These figures are important enough to affect the total figures of the whole province, and have been referred to in a preceding paragraph. Where the number of schools has fallen off in consequence of the frequent and harassing delay in the payment by District Boards of the sums earned by gurus at the examinations, there should be no difficulty in rectifying this mismanagement. The expenditure on lower primary schools for native boys from all sources amounted to Rs. 20,13,050, of which the public funds contributed Rs. 3,81,377. The people therefore bear more than four-fifths of the total cost of the primary pathshalas. The falling off in the lower primary schools from 7,467 to 6,784 successful schools, and from 20,617 to 17,614 successful pupils, is ascribed to several reasons. The Director appears to be disposed to regard the constant tendency to raise the standard of examination, in Bengal proper at any rate, as the real cause, and makes a suggestion for the preparation of a common set of question papers to be distributed to all the examination centres in a division or circle. The idea is worth considering; but the Lieutenant-Governor apprehends that, having regard to the difficulty of keeping examination questions secret, it would hardly prove feasible. His Honour has recently had occasion to press upon a District Board the advisability of adhering to the Government policy of replacing a system of stipends by one of rewards for the encouragement of primary education. He has recorded his opinion that the system of payment-by-results is the best on account of its cheapness, as setting free money by which the education of the masses may be reached. But at the same time he recognises the value both of stipends as fostering the stability of schools, and of stipendiary schools, both upper and lower primary, as being the best of the class and serving to keep up the standard of primary education. While, therefore, the main policy of Government must be maintained, in favour of replacing stipends by payments-by-results, His Honour is not prepared, while the primary grant remains inexpansive, to insist on the immediate distribution of the available money over a larger surface, merely for the sake of increasing the numbers nominally receiving some kind of instruction. He regards the preservation of the standard which has been attained by the primary schools as a principle of great importance.

10. There are 242 training schools for teachers, i.e., masters, mistresses, and gurus, with 1,993 persons under instruction.

Special instruction.

It is satisfactory to find that in general those who pass out of our training schools are sought after as teachers, and seldom find difficulty in obtaining employment. The Director has rightly instructed the Inspector of the Behar Circle to challenge any appointment made by a District Board that he finds open to objection on the ground of a passed pupil of the Patna training school being overlooked for an outsider.

The other class of schools of special instruction includes the institutions for professional, technical, art, and industrial education, and schools of a special character. The statistics relating to their numbers and cost are given in the following form:—

	Number of institutions.	Number of pupils on the rolls on 31st March 1899.	Average monthly roll number.	EXPENDITURE.				AVERAGE ANNUAL COST PER PUPIL.	
				From public funds.		From Private funds.	Total.	Cost to public funds.	Total cost.
				From Provincial revenue.	From District and Municipal funds.				
I.—Law.									
Government Law Schools	8	118	137	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.
Unaided Law Schools	4	794	736	..	..	8,710	8,710	..	63 10 3
Total	10	912	863	..	..	22,186	22,186	..	30 8 11
II.—Medicine.									
Calcutta Medical College	1	149	196	1,90,851	..	8,388	1,99,239	963 14 3	1,006 1 0
Government Medical Schools	4	639	694	72,945	..	17,242	90,207	123 0 3	150 13 6
Unaided Medical Schools	2	223	235	..	..	8,911	8,911	..	36 3 8
Total	7	1,016	1,031	2,63,816	..	31,505	2,95,321	265 14 1	296 7 0
III.—Engineering.									
Civil Engineering College, Seebpore	1	265	221	65,000	..	9,237	74,237	294 8 9	236 11 9
Government Survey Schools	3	397	399	7,497	..	4,777	12,274	19 3 0	31 4 11
Total	4	662	613	72,503	..	14,114	86,707	118 6 9	161 7 1
IV.—Art and Industry.									
Government School of Art	1	178	171	25,663	..	2,905	28,567	160 13 4	173 14 0
Ditto Industrial Schools	5	89	87	1,633	..	1,483	3,115	64 1 8	89 9 8
B and Industrial School	1	30	27	..	751	471	1,198	..	66 3 4
Aided Industrial Schools	3	582	289	1,465	508	2,792	5,246	8 1 11	30 2 6
Unaided ditto	4	188	184	..	..	336	636	..	4 0 2
Total	14	785	685	28,759	1,259	10,389	40,377	43 16 4	67 10 3
V.—Other Schools of Special Instruction.									
Government Schools	1	54	42	4,167	..	..	4,167	99 3 5	99 3 5
Aided Schools	7	307	254	890	600	3,973	4,173	3 15 9	7 13 3
Unaided Schools	7	260	220	..	..	936	936	..	4 4 0
Total	15	611	496	4,957	600	3,909	8,375	9 13 8	16 11 3
GRAND TOTAL	54	3,986	3,066	3,70,036	1,759	99,622	4,63,886	..	..

There is no object in striking an average of the cost per pupil at a number of schools so varied in character and status.

The variations in the numbers of students following the different professions will appear from these figures :—

YEARS.	Law.	Medicine.	Engineering.	Arts and industry.	Other special schools.	Total.
1888-89	935	999	518	651	172	3,275
1889-90	912	1,016	652	795	611	3,986

It is a hopeful sign if these figures may be depended upon, as they presumably can be, as indicating that a fair proportion of the youth of Bengal are seeking to devote their talents to professions comparatively new to them. The attendance at the Seebpore Civil Engineering College, 265, was the largest yet recorded. The Lieutenant-Governor observes the remark quoted by the Director that insufficient opportunities are afforded to the students of acquiring familiarity with practical work. He concurs in the necessity of recognising more fully the educational purpose of the workshops, and trusts that their requirements may be met, so that the Seebpore College may become, as it now is to a great extent, the centre of true technical education in Bengal. The Government School of Art continues to attract students, 178 having attended it as compared with 158 and 172 in the last two years. The need of a new building for the accommodation of the school and the attached Art Gallery in place of the dilapidated and altogether unsuitable houses now rented for the purpose has been recognised by Government as a matter of pressing urgency.

Towards the end of the official year the valuable report submitted by Mr. E. W. Collin, C.S., on the existing arts and industries in Bengal, in connec-

tion with technical education, came before Government. A number of his suggestions have been under consideration, and the Lieutenant-Governor trusts that in due course some practical measures may be selected for adoption.

11. The attendance and expenditure in schools for native girls are shown in the following statement, in which the total figures for the previous two years are given for comparison:—

Class of schools.	Number of schools.	Number of pupils on the rolls on 31st March 1890.	Average number on the rolls monthly.	Average daily attendance.	EXPENDITURE.					Total.
					From public funds.			From private funds.		
					Provincial Revenues.	District Funds.	Municipal Funds.	Fees.	Other sources.	
Managed by Government ...		225	202	181	Rs. 17,063	.....	.....	Rs. 5,761	Rs. 635	Rs. 24,071
Ditto by District or Municipal Boards ...	5	223	208	184	168	.....	1,140	.....	88	1,396
Aided by Government or by District or Municipal Boards	1,913	46,614	37,080	28,507	60,974	22,213	8,019	17,165	1,63,616	2,81,067
Unaided ..	233	4,618	4,407	3,264	.....	.....	.....	948	18,720	19,668
Total ...	2,153	45,690	41,897	32,085	67,799	22,213	9,189	23,864	1,82,924	3,16,669
For 1889-90 ..	...	...	...	...	1,29,171			2,06,788		...
Figures for 1887-88 ..	...	...	...	...	1,17,314			1,90,689		3,07,873
Do. for 1888-89 ..	...	...	...	...	1,31,106			1,88,915		3,10,021

The number of girls' schools has declined from 2,302 to 2,153, and their pupils from 47,888 to 45,690. These figures are the lowest for the three years under examination. The number of girls reading in boys' schools, which had fallen from 37,785 to 35,079, has again decreased to 32,673. The net result therefore is a loss of 149 schools and 4,604 pupils. Greater stringency has apparently been exercised in the administration of the rules for rewards and in the realization of fees. Two young native ladies were admitted to the degree of Bachelor of Medicine, and another passed the Preliminary Scientific L.M.S. examination. Eleven young ladies of the certificate class of the Medical College also obtained the College license to practice medicine and surgery: eleven more were in the certificate class at the close of the session. There were 22 female students in the Campbell Medical School and five in the Cuttack Medical School. From the Bethune College three native candidates out of four passed the First Arts Examination, and all three candidates at the B.A. Examination passed. The second examination for the award under the new standards of the special girls' scholarships sanctioned for Calcutta and the neighbourhood was held during the year. As the extension of these standards to the mofussil has been sanctioned, they would be very widely adopted, it is said, if it could be found possible to create a certain number of special scholarships for girls in each district: at present they have to compete for scholarships on equal terms with the boys at the primary scholarship examinations.

12. The statistics of European education at the end of the last three official years may be exhibited as follows:—

Education of Europeans.

	1887-88.	1888-89.	1889-90.
Schools	72	71	68
Pupils	6,541	6,682	6,710

In the last year the number of boys increased by 40, while there were 12 girls fewer under education. The boarding school at Kurseong is still the only Government school in the province. Out of the 6,710 scholars, 3,383 were in schools under Roman Catholic management and 1,646 under the Church of England. The total cost of European education in Bengal was Rs. 6,50,812, of which Government paid Rs. 1,72,168. Several important changes in the Code came into force during the year. A set of inter-school transfer rules was introduced: they have been very beneficial in preventing capricious transfers, and have improved the financial condition of the schools by compelling parents to pay the schooling fees. Provision was also made for the substitution of fixed grants in place of payment by results in selected schools. The imposition of fines for uncorrected errors in the keeping of attendance registers was also sanctioned. The recognition of the high school examination by the University

has not induced any of the boys' schools to substitute this examination for the Entrance Examination; the reason is said to be that no scholarships are awarded on the result. The establishment of scholarships for the high school examination has been proposed.

13. The total number of Muhammadan pupils again rose from 423,564 to 436,653, and the percentage on the total number of pupils from 28.5 to 29.06, the proportion of Muhammadans to the whole population being 31.5 per cent. This increase was altogether due to a rise of 22,024 pupils in private institutions teaching the Koran only. In public institutions the number of Muhammadan pupils decreased by 10,624, the loss of Muhammadan pupils in lower primary schools being 14,889. As already explained, the large increase in the number of Koran schools, and the corresponding decrease in lower primary schools, were largely due to a change of classification in parts of Eastern Bengal. The number of Muhammadan college students fell from 240 to 179, and percentages show that candidates of this creed suffered at the Entrance Examination of 1889 more severely than others. At the Entrance Examination of 1890 the successful candidates increased from 54 to 125. The Lieutenant-Governor observes with great satisfaction that, in spite of a temporary decline in the colleges, the appreciation of Muhammadans for English education continues to grow steadily and even rapidly. The first reports furnished by the recently appointed Assistant Inspectors for the supervision of Muhammadan education in Eastern Bengal and in Behar have been received, and show that the special requirements and difficulties of this branch of the community are now receiving and will receive adequate attention. The Director has, by giving a *resumé* of the facts, confined himself within the proper limits of an annual report, and the Lieutenant-Governor will await any definite suggestions for action which he may desire to offer. The annual income of the educational portion of the Mohsin Fund continues to be about Rs. 63,100, and the actual expenditure debited to this account is stated at Rs. 61,067. The question of the redistribution of the grants from this fund may be considered with any other points which the Assistant Inspectors may raise. The comparative success of the Muhammadans in the University examinations in the last two years is shown by the following figures:—

		M.A.	B.A.	F.A.	Entrance.
1888-89	...	1	18	21	54
1889-90	...	3	21	57	125

There was also a large increase in the number of middle and upper primary examination certificates gained by Muhammadan students, though somewhat fewer passed at the lower primary examination. The total number of pupils at the madrasahs under Government management remained exactly the same as in the preceding year, viz. 1,456, but the total expenditure rose from Rs. 58,865 to Rs. 61,761, the increase being nearly all at the cost of Government. Sir Steuart Bayley notices with pleasure the excellent report of the discipline and tone of the Nawab of Moorshedabad's Madrasah with its 63 pupils.

14. The number of pupils from among the aboriginal races rose from 27,246 to 29,749, i.e. by 2,503. This is more than a recovery of the loss recorded in the last year's report. This increase was shared by most of the tracts of country inhabited by these races. The greatest gain of 1,559 pupils was in Chota Nagpore, of whom 1,390 were non-Christians and 169 Christians. The pupils in the Missionary schools in that division increased from 3,127 to 3,582, and the expenditure from Rs. 38,703 to Rs. 39,011, of which Government contributed less than one-fifth. No aboriginal pupil passed any University Examination as in the previous year, but 427 passed the departmental examinations. Of these, 367 succeeded in the lower primary scholarship examination (a falling off from the 378 last year) and 36 (as compared to 15) in the upper primary scholarship examination.

The development of indigenous institutions during a triennial period is apparent from the subjoined figures:—

	1887-88.	1888-89.	1889-90.
Schools	10,048	11,709	13,867
Pupils	96,721	117,284	139,603

This is a remarkable and continuous rise. Analysing the figures, it appears that there was a considerable decrease in advanced Arabic or Persian schools, and a gain in Sanskrit tols. There was a very large increase in the number of elementary pathshalas and of Koran schools, as already noticed. The Assistant Inspector's observations on the latter and the maktabas are noted, but call for no immediate orders.

15. The Lieutenant-Governor has had the pleasure annually of acknowledging the services rendered to Government by the Director in his successful administration of the Department of Public Instruction, and the merits of the reports submitted by him and Mr. Tawney. The record of the year under review fully maintains the Director's high reputation. Sir Steuart Bayley desires to take this opportunity, the last of which he will be able to avail himself, to offer his cordial thanks to Sir A. Croft, Mr. Tawney, Mr. Bellett, Mr. Nash, Rai Radhika Prasanna Mookerjee, Bahadur, Baboo Brahmo Mohun Mullick, Rai Dinanath Sen, and the many other excellent officers of the Department employed in the direct work of instruction as Principals and Professors of Colleges, for the valuable advice and the loyal co-operation which he has always received from them.

By order of the Lieutenant-Governor of Bengal.

C. E. BUCKLAND,

Offg. Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 25th October 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.																				
BENGAL.																							
Western Districts.																							
1	Burdwan Oct. 25, '90 Ranigunge ...	Nil 1.28	Weather—cold in the morning. Prospects of <i>amun</i> and sugarcane good. Prices of common rice :— <table><tr><td>Burdwan</td><td>...</td><td>...</td><td>Srs. Ch.</td></tr><tr><td>Culina</td><td>...</td><td>...</td><td>16 0</td></tr><tr><td>Cutwa</td><td>...</td><td>...</td><td>15 0</td></tr><tr><td>Ranigunge</td><td>...</td><td>...</td><td>14 15</td></tr><tr><td></td><td></td><td>...</td><td>17 0</td></tr></table> } per rupee.	Burdwan	Srs. Ch.	Culina	16 0	Cutwa	15 0	Ranigunge	14 15			...	17 0
Burdwan	Srs. Ch.																				
Culina	16 0																				
Cutwa	15 0																				
Ranigunge	14 15																				
		...	17 0																				
2	Bankoore .. 25, '90	Nil	Weather—seasonable. Prospects of <i>amun</i> favourable. Sowing of <i>rubbi</i> commenced. Price of rice stationary.																				
3	Birbhum .. 25, '90 Ranpore Haut ...	0.49 0.06	Cold season has set in. Crops excellent. Price of rice from 17 to 19 seers per rupee.																				
4	Midnapur .. 25, '90	Nil	Weather—cool and bright. Transplanted paddy, indigo, and sugarcane doing well. Prospects in Contai fair except in submerged tracts. Prices of common rice :— <table><tr><td>Sudder</td><td>...</td><td>...</td><td>Srs.</td></tr><tr><td>Tumlook</td><td>...</td><td>...</td><td>15</td></tr><tr><td>Ghatal</td><td>...</td><td>...</td><td>16</td></tr><tr><td>Contai</td><td>...</td><td>...</td><td>16</td></tr><tr><td></td><td></td><td>...</td><td>18</td></tr></table> } per rupee.	Sudder	Srs.	Tumlook	15	Ghatal	16	Contai	16			...	18
Sudder	Srs.																				
Tumlook	15																				
Ghatal	16																				
Contai	16																				
		...	18																				
5	Hoochly .. 25, '90 Serampore ... Jehanabad ...	0.07 3.91 0.15	Weather—settling down. Prospects of paddy crop very favourable, but peas and potatoes have suffered here and there from the late rain. Prices of rice :— <table><tr><td>Sudder</td><td>...</td><td>...</td><td>Srs.</td></tr><tr><td>Serampore</td><td>...</td><td>...</td><td>14</td></tr><tr><td>Jehanabad</td><td>...</td><td>...</td><td>14</td></tr><tr><td></td><td></td><td>...</td><td>16</td></tr></table> } per rupee.	Sudder	Srs.	Serampore	14	Jehanabad	14			...	16				
Sudder	Srs.																				
Serampore	14																				
Jehanabad	14																				
		...	16																				
	Howrah .. 25, '90 Uluberiah ...	0.11 0.02	Weather—varying. Prospects of <i>amun</i> crop favourable. Common rice selling at 14 seers per rupee.																				
Central Districts.																							
6	24-Parghas. Oct. 23, '90	1.51	Weather—seasonable. Prospects of standing crops good except in the small flooded tracts of the Hussirhat subdivision. Ploughing for winter crops going on. Common rice sells at from 13 to 15 seers per rupee.																				
7	Nuddea .. 25, '90 Kushtea ... Chaudanga ... Ranaghat ...	0.12 1.95 1.35 1.89	Weather—clear and cool. <i>Amun</i> rice and sugarcane on high lands doing well. Sowing of winter crops going on. Price of rice much as usual.																				
8	Kuoolna .. 25, '90 Bagirhat ... Sathkira ...	1.11 2.52 2.36	Weather—seasonable. On 22nd afternoon there was a strong wind, damaging many houses and uprooting trees, &c. Prospects of <i>amun</i> crop good in Sudder and Bagirhat subdivisions, but not so in Sathkira subdivision.																				
9	Measore .. 25, '90 Jhenidah ... Magura ... Narail ... Hongong ...	2.37 1.83 1.64 7.6 0.70	Weather—rainy in the beginning of the week; latterly fair. Sowing of cold-weather crops stopped for rain. Price of rice rose in Narail.																				
10	Mooreabad .. 25, '90	Nil	Weather—getting cool. <i>Amun</i> doing well. Prospects favourable. About 12,000 bighas of paddy land was submerged by the overflow of the Brahmini river, and the damage estimated to be about 4 annas, as the water remained for two or three days. <i>Rubbi</i> being sown. Prospects of <i>kalmi</i> good. Agricultural loans and charitable relief still being distributed.																				
11	Ulasingpur .. 25, '90 Thakurgaon ...	Nil 0.05	Weather—seasonable. Prospects of crops good. Price of rice stationary.																				
12	Rajahmlye .. 25, '90 Natore ... Nowgong ...	Figures not given. 3.89 0.06	Weather—fair, with clouds here and there and drizzling rainfall on 23rd. Hot days and cool mornings. Condition of <i>haimanti</i> paddy good. Preparation of land for sowing of winter crops going on. Steeping of jute nearly completed.																				
13	Rungham .. 25, '90 Nilphamari ... Golconda ... Kurigram ...	Nil 1.82 3.40 0.03	Weather—fine, clear and hot; cool at night. Prospects of <i>amun</i> continue good. Mustard is being sown in some places. Sugarcane is being cut. Prices high.																				
14	Bogra .. 25, '90 Sherpur ...	0.38 0.48	Weather—cloudy and showery in the middle of the week; now fine, with northerly breeze. All standing crops promise well after allowing for the damage caused by floods, as previously reported. Of <i>amun</i> paddy 13 annas outturn is expected. Preparations for winter and spring crops are going on well. Common rice is selling at 13 seers a rupee.																				
15	Pubna .. 25, '90	0.45	Weather—cool and bright. Prospects of <i>amun</i> continue good. <i>Rubbi</i> sowings damaged by the late heavy rain. Prices as before.																				
16	Darjeeling .. 25, '90	0.12	Weather—very fine. Prospects of crops good.																				
17	Jalpigore .. 25, '90	Nil	Weather—seasonable. <i>Haimanti</i> rice expected to yield good outturn. Harvesting of jute continues. Common rice selling at 14 seers per rupee at the Sudder station.																				

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
HENGAI—concluded.			
<i>Eastern Districts.</i>			
Dacca Div.	18 Dacca Oct. 25, '90	2.90	Weather—cloudy and rainy. Harvesting of jute completed. <i>Amun</i> paddy thriving. <i>Maskalai</i> being sown. Cultivation for mustard and pulses going on. Common rice sold at from 12 to 15 seers per rupee.
	19 Farreedpur „ 25, '90	3.47	Weather—foul and rainy during most part of the week. Standing crops fair. Sowing of winter crops in progress. Common rice selling at 13 seers per rupee in Goalundo and Sudder subdivisions.
	20 Backergunge „ 25, '90	2.19	Weather—seasonable. State and prospects of crops good. Common rice selling at about 13 seers per rupee.
	21 Mymensingh „ 25, '90	3.79	Rain every day. Prospects of crops good. Common rice selling at 12½ seers per rupee.
Chittagong Div.	22 Chittagong „ 23, '90	1.13	Weather—seasonable. Outturn of <i>aus</i> twelve annas. State of <i>amun</i> promising. Prices stationary.
	23 Noakholly „ 25, '90	4.18	Weather—unseasonable: cloudy and rainy. The late rain has done good to the <i>amun</i> plants. Prospects of crops good.
	24 Tipperah „ 25, '90	2.09	Weather—rainy and cloudy. <i>Amun</i> paddy prospering. Jute cutting over. Price of rice stationary.
	25 Chittagong Hill Tracts „ 23, '90	0.44	Weather—hot during day. Sky cloudy almost throughout the week. Rainy on the 22nd and 23rd. Gathering of <i>jum</i> crops, except cotton and yam, nearly over. Cotton here and there ripening, but generally in flower. Prospects of <i>amun</i> crop and sugarcane good. Ploughing of lands for mustard and vegetables is being carried on. Common rice selling at 11 seers 6 chittacks per rupee.
BEHAR.	Hill Tipperah	...	Report not received.
Patna Div.	26 Patna „ 25, '90	Nil	Weather—hot; cool at night. Paddy looks very well. Sowing of <i>rabbi</i> crops being pushed on. In some places <i>rabbi</i> sown and germinated. Paddy field also being prepared and will be sown shortly. Prospects of other crops on the ground favourable. Prices of food-grains stationary.
	27 Gaya „ 25, '90	Nil	Weather—clear days and cold nights. Prospects of paddy and other crops favourable. Sowing of <i>rabbi</i> going on. Prices of food-grains stationary.
	28 Shahabad Buxar „ 25, '90	0.6 0.45	Weather—cooler. Paddy good. Ploughing for <i>rabbi</i> proceeding. Prices stationary.
	29 Durbhanga „ 25, '90	Nil	Weather—bright and cold. Rice crop looks very promising and in some places coming into ear. <i>Rabbi</i> sowings and tobacco transplantation being pushed on. Prices stationary.
Bhagalpore Div.	30 Muzafferpur Hajipore „ 25, '90	Nil 0.23	Weather—fine. Paddy prospects good. Sowing of <i>rabbi</i> stopped owing to rain of last week, but it will commence again almost immediately. Prices stationary.
	31 Saran „ 25, '90	Nil	Weather—fine and clear. Strong west wind and colder weather for the last two days. <i>Rabbi</i> and rice prospects excellent. Prices slightly falling.
	32 Champarnu Bettiah „ 25, '90	0.28 0.05	Weather—days hot, nights cool. Prospects of paddy very good. Preparation of land for winter crops stopped by the continuous rain of the last week.
	33 Monghyr Begusarai „ 25, '90	Nil 0.04	Weather—seasonable; getting cool gradually. State and prospects of all standing crops good. <i>Rabbi</i> crops being sown everywhere.
	34 Bhagnipore Banka Mudhapura „ 25, '90	Nil 0.02 0.09	Weather—clear; mornings and evenings cool; heavy dews at night. Winter rice promising. <i>Kutki</i> , <i>vahar</i> , and sugarcane doing well. Lands being prepared for wheat and other <i>rabbi</i> crops.
	35 Purneah „ 25, '90	Nil	Weather—seasonable. Prospects of crops good. <i>Rabbi</i> crops still being sown.
	36 Malda Shikungo Gajole „ 25, '90	Nil 6.35 0.19	Weather—seasonable. Prospects of all standing crops continue favourable. <i>Kutki</i> sowings nearly completed. Preparation of lands for <i>rabbi</i> crops going on. Common rice selling at from 13 to 15 seers per rupee.
	37 Sonthal Perga „ 25, '90	Nil	Weather—getting cool and pleasant. Prospects of rice crop excellent; an outturn above the average expected. Cutting of early rice commenced.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack Oct. 25, '90	Nil	Weather—seasonable. General prospects of crops continue good.
	39 Pooree „ 23, '90	0.83	Weather—seasonable and settled. <i>Sarad</i> crop in ear. <i>Beali</i> and <i>mandia</i> being harvested. Lands being ploughed for <i>rubbi</i> crops. Price of common rice stationary.
	40 Balasore „ 25, '90	Nil	Weather—cooler. Condition of standing crops generally good.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	61 Hasaribagh Oct. 25, '90	Nil	Weather—seasonable. Winter rice and sugarcane doing well. <i>Rubbi</i> crops being sown. Prices more or less stationary.
	42 Lohardugga „ 25, '90	Nil	Weather—seasonable. Harvesting of <i>gora</i> rice nearly finished. Prospect of winter rice continues favourable. No material change in prices.
	43 Singbhoom „ 25, '90	Nil	Weather—seasonable; cloudy but clear again. <i>Beera</i> or highland paddy being reaped and <i>doin</i> or lowland paddy doing well. <i>Surgouja</i> being sown. Yield of <i>tussar</i> crop estimated at about 8 to 10 annas. Prices steady.
	44 Manbhoom „ 25, '90	Nil	Weather—cold and dry. Prospects of crops very favourable so far.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 28th October 1890.C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal.

			STATION OBSERVATIONS.												
METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.							
			Mean barometric height, 3 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
CENTRAL.	Pooree	Pooree	29.939	29.931	+	?	161	88.2	22nd Oct.	70.6	22nd Oct.	86.5	74.7	80.8	-
		Gopalpore	29.938	29.930	+0.008	NNW	195	86.7	23rd "	69.9	23rd "	85.5	71.3	80.1	-1.7
		False Point	29.984	29.946	-0.001	NW & NNW	147	86.4	24th "	70.1	22nd "	84.5	73.5	78.5	-3.3
		Cuttack	29.981	29.964	+0.021	Westerly	39	89.4	20th "	70.3	23rd "	83.6	73.2	80.9	-1.9
SOUTH-WEST BENGAL.	Balasore	Balasore	29.911	29.971	+0.021	NNW & calm	161	86.4	18 to 21 "	71.5	23rd "	86.9	73.4	79.7	-0.1
	North-West Midnapore	Saugor Island	29.919	29.945	+0.023	North-Westerly	238	85.3	24th "	73.0	21st "	83.6	73.6	79.7	-1.6
	South 24-Pargunnahs	Midnapore	29.900	29.964	-0.006	N	216	89.3	24th "	72.3	23 & 24 "	87.2	73.0	80.1	+0.2
	Midnapore	Midnapore	29.900	29.964	-0.006	N	216	89.3	24th "	72.3	23 & 24 "	87.2	73.0	80.1	+0.2
SOUTH-WEST BENGAL.	14-Pargunnahs	Calcutta	29.933	29.947	+0.003	Calm	55	86.0	19th "	73.2	21st "	83.5	73.4	78.5	-1.3
	Howrah	Howrah	29.934	29.930	+0.004	Calm & N	44	87.8	24th "	73.4	21st "	84.9	74.8	79.9	-1.3
	Hooghly	Hooghly	29.940	29.945	+0.004	N	23	87.6	24th "	71.1	22nd "	85.0	73.4	79.3	-1.3
	Burdwan	Burdwan	29.937	29.973	+0.033	NNW	47	86.5	24th "	70.4	22nd "	84.5	71.7	78.2	-3.1
SOUTH-WEST BENGAL.	Bankura	Bankura	29.937	29.973	+0.033	NNW	47	86.5	24th "	70.4	22nd "	84.5	71.7	78.2	-3.1
	Beerbhoom	Beerbhoom	29.933	29.980	+0.047	NNW	107	85.6	20, 21 & 24 Oct.	73.3	20 & 21 "	84.3	73.9	78.6	-2.9
	West Burdwan	West Burdwan	29.933	29.980	+0.047	NNW	107	85.6	20, 21 & 24 Oct.	73.3	20 & 21 "	84.3	73.9	78.6	-2.9
	Mooredabad	Mooredabad	29.937	29.945	-0.011	ENE	86	85.4	24th "	71.3	24th "	84.6	73.9	78.6	-1.4
SOUTH-WEST BENGAL.	Nuddea	Krishnagar	29.937	29.945	-0.011	ENE	86	85.4	24th "	71.3	24th "	84.6	73.9	78.6	-1.4
	Jessore	Jessore	29.933	29.945	-0.012	North-Westerly	86	85.7	18th "	72.9	21 & 22 "	84.7	74.6	79.7	-1.7
	Khoolna	Khoolna	29.933	29.945	-0.012	North-Westerly	86	85.7	18th "	72.9	21 & 22 "	84.7	74.6	79.7	-1.7
	Chittagong	Chittagong	29.933	29.945	-0.012	South-Easterly	86	87.7	19, 20 & 22 Oct.	71.7	20th "	85.8	74.3	79.0	+0.7
SOUTH-WEST BENGAL.	Chittagong Hill Tract	Demagiri	29.933	29.945	-0.012	South-Easterly	86	87.7	19, 20 & 22 Oct.	71.7	20th "	85.8	74.3	79.0	+0.7
	Backergunge	Backergunge	29.920	29.983	+0.013	North-Easterly	83	86.3	18, 19 Oct.	71.9	21st "	83.7	74.0	78.9	-0.3
	Nonkhally	Nonkhally	29.909	29.963	+0.026	Easterly S & NE	161	86.0	18 to 20 "	71.8	20th "	84.6	73.3	79.2	-0.1
	Farredpore	Farredpore	29.904	29.944	0	Calm	68	85.3	19th "	72.4	21st "	83.7	73.7	78.2	-1.4
SOUTH-WEST BENGAL.	Dacca	Dacca	29.906	29.929	-0.008	Variable	111	86.1	18th "	69.7	21st "	84.7	73.3	79.0	-2.1
	Comilla	Comilla	29.912	29.947	+0.013	North-Easterly	67	87.4	19 & 23 "	70.3	21st "	84.7	73.6	78.4	-2.9
	Mymensingh	Mymensingh	29.934	29.943	+0.013	North-Easterly	68	86.2	22nd "	69.6	21st "	83.9	73.0	77.4	-3.4
	Sogra	Sogra	29.936	29.932	+0.014	North-Easterly	45	84.3	20th "	70.1	21st "	82.7	73.6	77.6	-3.6
SOUTH-WEST BENGAL.	Pubna	Pubna	29.936	29.940	-0.001	North-Easterly	45	85.7	19th "	69.2	21st "	83.3	72.1	77.7	-1.3
	Rajshahi	Rajshahi	29.975	29.946	+0.015	Variable	66	85.3	20th "	71.7	21st "	83.6	73.2	78.4	-0.4
	Maldah	Maldah	29.977	29.961	+0.030	NW	66	85.3	20th "	69.7	19th "	84.5	71.3	77.9	-3.2
	Dinapore	Dinapore	29.937	29.930	+0.007	North-Westerly	45	86.1	24th "	68.1	19th "	84.5	70.3	77.3	-1.4
SOUTH-WEST BENGAL.	Rangpore	Rangpore	29.943	29.970	+0.019	Variable	57	86.6	24th "	69.3	19th "	84.4	71.3	77.3	-0.7
	Jalpigore	Jalpigore	29.936	29.940	+0.003	?	?	85.4	22nd "	63.6	18th "	83.8	66.3	75.0	-3.9
	Uooch Behar	Uooch Behar	29.936	29.940	+0.003	?	?	85.4	22nd "	63.6	18th "	83.8	66.3	75.0	-3.9
	Darjeeling Hill Tract	Darjeeling	29.933	-	+0.004	ESE	75	64.1	22nd "	68.2	20th "	60.3	46.3	54.4	+0.3
SOUTH-WEST BENGAL.	Purneah	Purneah	29.940	29.909	+0.029	Variable	40	87.7	22nd "	67.6	19 to 21 "	84.1	63.9	75.3	-3.3
	North Bhanulpore	North Bhanulpore	29.940	29.909	+0.029	Variable	40	87.7	22nd "	67.6	19 to 21 "	84.1	63.9	75.3	-3.3
	Mozufferpore	Mozufferpore	29.974	29.968	-	Calm	33	86.8	24th "	73.3	18th "	83.8	74.3	79.1	-
	Durbhanga	Durbhanga	29.960	29.967	+0.013	Variable	38	86.9	23rd "	67.0	18th "	84.3	69.1	76.7	-2.3
SOUTH-WEST BENGAL.	Chumpra	Chumpra	29.950	29.964	+0.053	Variable	38	87.3	24th "	66.8	24th "	84.5	69.2	78.4	-0.3
	Chumpra	Chumpra	29.978	29.975	+0.036	Westerly	41	86.3	24th "	71.7	18 & 20 "	84.8	73.3	78.6	0
	Dehra	Dehra	29.915	29.973	+0.013	SSW	31	86.5	21, 24 "	68.0	24th "	83.7	69.4	77.1	-0.4
	Shahabad	Shahabad	29.930	29.978	+0.027	Westerly	39	86.9	24th "	69.3	19, 24 "	84.6	70.2	77.4	-1.6
SOUTH-WEST BENGAL.	Gya	Gya	29.970	29.976	+0.034	SW	4	85.4	24th "	67.7	24th "	83.7	69.2	77.8	-0.3
	Gya	Gya	29.968	29.986	+0.033	S	109	87.4	24th "	68.3	22nd "	85.9	69.6	77.7	-1.3
	Patna	Patna	29.973	29.976	+0.020	Southerly	34	85.4	23 & 24 "	69.3	18 & 19 "	84.0	70.5	77.2	-2.4
	South Bhanulpore	South Bhanulpore	29.974	29.970	+0.006	Calm	3	86.2	24th "	67.5	18 & 21 "	83.6	69.4	76.5	-1.3
SOUTH-WEST BENGAL.	Monghyr	Monghyr	29.974	29.970	+0.006	Calm	3	86.2	24th "	67.5	18 & 21 "	83.6	69.4	76.5	-1.3
	South Pargunnahs	South Pargunnahs	29.963	29.963	+0.013	NW	40	85.6	24th "	68.6	21st "	84.5	69.2	77.0	-3.4
	Hasaribagh	Hasaribagh	29.942	29.940	+0.011	Calm	70	81.9	24th "	63.3	22nd "	60.3	63.4	71.3	-2.7
	Lohardaga	Lohardaga	29.931	29.935	+0.015	Calm	63	81.5	20 & 24 "	69.9	19 & 21 "	69.1	61.3	70.9	-3.9
SOUTH-WEST BENGAL.	Manbhum	Manbhum	29.931	29.935	+0.015	Calm	63	81.5	20 & 24 "	69.9	19 & 21 "	69.1	61.3	70.9	-3.9
	Singbhum	Singbhum	29.930	29.930	+0.029	Calm	23	87.9	19th "	66.8	21 & 23 "	80.3	67.5	70.9	-5.3
	Thyagaraj	Thyagaraj	29.936	29.936	+0.016	NE	105	86.1	24th "	66.9	22nd "	83.3	70.4	77.1	0
	Assam	Assam	29.939	29.940	+0.003	North-Easterly	105	83.3	18 & 23 "	68.4	24th "	81.0	70.9	76.4	-2.6
SOUTH-WEST BENGAL.	Silchar	Silchar	29.944	29.933	+0.004	Calm	105	83.0	22nd "	71.3	20th "	87.0	73.2	80.1	-0.1
	Silchar	Silchar	29.944	29.933	+0.004	Calm	105	83.0	22nd "	71.3	20th "	87.0	73.2	80.1	-0.1
	Silchar	Silchar	29.944	29.933	+0.004	Calm	105	83.0	22nd "	71.3	20th "	87.0	73.2	80.1	-0.1
	Silchar	Silchar	29.944	29.933	+0.004	Calm	105	83.0	22nd "	71.3	20th "	87.0	73.2	80.1	-0.1

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the years 1871 to 1890. The atmospheric pressure is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the same time in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

the week ending Friday, the 24th of October 1890.

				DISTRICT OBSERVATIONS.														
				RAINFALL.														
				Since 1st of month.			Since 15th May 1890.											
				Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.		District.				
Average cloud amount at 8 A.M. for week.				OF WEEK.														
Rainfall of week at observing station.				Mean for district.	Normal mean.													
37	0.5	0.83	0.51	1.90	8.40	8.70	+1.70	62.66	50.81	+11.85	1.8	1.9	Pooree	Pooree	ORISSA.			
38	4.0	0.75											Gopalpore					
39	3.4	Nil	0.55	1.28	6.28	4.50	+2.48	60.97	48.55	+12.42	0.4	1.8	False Point					
40	1.3	Nil	0.02	0.88	8.07	4.84	+3.73	58.19	50.65	+7.54	0.3	1.3	Outtack	Outtack	ORISSA.			
41	7.4	2.19	1.23	1.41	16.85	8.88	+10.47	63.63	58.06	+4.57	2.3	1.4	Balasore	Balasore				
42	2.3	Nil	Nil	0.67	4.60	8.50	+1.10	40.87	40.74	+0.13	0.0	0.9	Saugor Island	South-West Midnapore	ORISSA.			
43	5.1	1.37	0.81	0.40	7.46	8.41	+3.99	55.19	49.89	+5.30	1.8	1.0	South 24-Pergunnahs	Midnapore				
44	6.1	Nil	Nil	0.34	6.72	8.21	+1.51	60.89	48.63	+12.26	0.0	1.1	24-Pergunnahs	Calcutta	ORISSA.			
45	1.7	Nil	Nil	0.35	5.34	8.01	+2.63	53.01	50.75	+2.26	0.0	1.0	Howrah	Burdwan				
46	1.3	1.28	0.44	0.29	7.76	8.99	+4.77	63.33	50.29	+13.04	0.5	0.9	Hooghly	Bankura	ORISSA.			
47	5.0	Nil	0.02	0.80	7.17	8.94	+3.83	59.95	49.35	+10.60	0.3	0.8	Raneegunge	Burdwan				
48	5.6	0.09	0.23	0.49	8.74	8.33	+5.23	54.99	47.00	+7.99	1.6	1.1	West Burdwan	Berhampore	ORISSA.			
49	6.7	2.73	2.33	0.61	7.88	8.61	+4.34	53.47	51.87	+2.10	2.9	1.2	Moorshedabad	Krishnagur				
50	6.0	0.85	1.28	0.62	8.72	8.10	+1.38	117.52	108.94	+8.58	3.5	1.5	Nuddea	Jessore	ORISSA.			
51	5.9	2.58	1.80	0.64	7.67	4.53	+3.14	68.16	73.85	-5.19	2.8	1.3	Khoulina	Chittagong				
52	1.6	4.27	0.62	0.62	8.50	8.57	+3.93	96.55	102.36	-5.81	3.5	1.4	Chittagong Hill Tracts	Demagiri	ORISSA.			
53	6.4	5.47	2.08	0.49	7.20	8.83	+3.88	68.09	58.91	+9.18	3.3	1.3	Backergunge	Barisal				
54	8.4	2.80	2.01	0.44	8.18	8.61	+1.54	68.16	57.91	+10.25	4.9	1.1	Noakholly	Noakholly	ORISSA.			
55	5.0	2.74		0.50	4.34			68.16				1.0	Furzedpore	Dacca				
56	6.7	3.77	2.67	0.67	9.69	4.67	+5.02	76.34	67.88	+8.46	2.8	1.1	Dacca	Commillah	ORISSA.			
57	8.0	0.46	0.32	0.60	11.28	4.08	+7.28	78.58	66.17	+12.41	1.0	0.7	Tipperah	Mymensingh				
58	6.8	0.10	0.32	10.64	8.09	3.93	+1.66	54.34	51.85	+2.49	2.5	0.8	Mymensingh	Bogra	ORISSA.			
59	2.6	0.01	0.28	0.20	9.26	8.22	+6.74	74.67	62.16	+12.51	1.3	0.7	Backergunge	Serajunge				
60	0.7	Nil	Nil	0.07	7.60	8.88	+4.72	62.12	53.66	+8.46	0.0	0.4	Fubna	Rampore Beaulah	ORISSA.			
61	3.1	Nil	0.01	0.11	11.44	8.17	+3.27	81.74	65.78	+15.96	0.3	0.8	Rajshahye	Maldah				
62	1.2	Nil	0.14	0.35	18.28	4.34	+14.04	106.61	78.43	+28.18	0.5	0.7	Dinapore	Dinapore	ORISSA.			
63	1.3	Nil	0.03	0.35	14.98	4.55	+10.43	154.51	103.40	+51.11	0.2	0.9	Rungpore	Rungpore				
64	2.3	0.12	0.21	0.43	14.03	4.07	+9.96	165.33	117.62	+47.71	1.0	1.1	Jalpigoree	Jalpigoree	ORISSA.			
65	1.4	Nil	Nil	0.09	6.38	8.78	+3.45	80.67	57.15	+23.52	0.0	0.4	Cooch Behar	Darjeeling Hill Tracts				
66	1.0	0.03	0.08	0.13	1.79	8.79	+1.00	52.57	42.26	+10.31	0.3	0.3	Purneah	Purneah	ORISSA.			
67	1.3	0.03	0.01	0.03	1.74	8.80	+0.86	57.63	43.34	+14.29	0.3	0.3	North Bhagulpore	Mozufferpore				
68	1.4	0.23	0.16	0.04	5.67	8.33	+2.66	68.47	45.33	+23.14	1.0	0.4	Mozufferpore	Durbhunga	ORISSA.			
69	0.3	Nil	Nil	0.11	1.48	8.72	+2.24	53.60	41.18	+12.42	0.0	0.4	Durbhunga	Mouthari				
70	0.1	Nil											Ohumparun	Chupra	ORISSA.			
71	0.7	0.40	0.07	0.35	1.34	8.78	+1.41	49.80	38.82	+10.98	0.4	0.4	Saran	Dehree				
72	1.0	0.08											Shahabad	Buxar	ORISSA.			
73	1.7	Nil	0.01	0.15	0.43	8.44	+2.01	55.93	40.17	+15.76	0.3	0.4	Gya	Arrah				
74	1.3	Nil	Nil	0.16	1.34	8.50	+1.16	69.10	39.67	+29.43	0.0	0.5	Gya	Gya	ORISSA.			
75	1.3	Nil	Nil	0.18	3.17	8.48	+0.74	52.25	41.68	+10.57	0.0	0.3	Patna	Bankipore				
76	0	Nil	0.04	0.27	10.19	8.11	+7.08	63.55	40.83	+22.72	0.3	0.5	South Bhagulpore	Bhagulpore	ORISSA.			
77	1.9	Nil	Nil	0.15		8.01		48.68			0.0	0.5	Monghyr	Bhagulpore				
78	1.0	Nil	Nil	0.33	1.63	8.37	+0.64	47.61	46.75	+0.86	0.9	0.3	Sonthal Pergunnahs	Doomke	ORISSA.			
79	2.3	Nil	Nil	0.47	1.73	8.94	+0.51	53.94	40.71	+13.23	0.0	1.0	Hazaribagh	Hazaribagh				
80	5.9	0.16											Lohardunge	Kharibagh	ORISSA.			
81	5.0	0.10											Manbhum	Banchi				
82	8.0	1.03											Singhboon	Chyabassa	ORISSA.			
83																		

The variations are *negatives* when the mean for the week is less than the corresponding normal mean, and *positives* when greater.
 The cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means are given for each district.
 The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisions.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 24th of October 1890

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 1st of May 1890.	Average rain- fall from 1st of May 1890.
			Saturday, 18th October.	Sunday, 19th October.	Monday, 20th October.	Tuesday, 21st October.	Wednesday, 22nd October.	Thursday, 23rd October.	Friday, 24th October.	Number of rainy days.	of Rainfall week.				
ORTISSA	Pooree	Pooree	0.85	0.08	0.00	0.00	0.00	0.00	0.00	2	0.93	9.56	6.91	65.38	
		Khurdah	0.35	0.00	0.00	0.00	0.00	0.00	0.00	1	0.35	7.29	5.50	63.45	
		Bampur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	6.05	5.40	67.00	
		False Point	0.07	0.68	0.00	0.00	0.00	0.00	0.00	2	0.75	10.63	8.95	68.28	
		Gop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	?	?	?	
	Outback	Satpara	0.00	0.00	0.00	0.06	0.00	0.00	0.00	1	0.06	7.57	?	37.90	
		Pipili	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	?	?	?	
		Jagatsingpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	6.65	5.74	60.50	
		Hanki	1.68	0.00	0.00	0.00	0.00	0.00	0.00	1	1.68	5.65	3.48	62.23	
		Cuttack	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	5.44	4.23	60.10	
	Balasore	Kendrapara	0.06	0.00	0.00	0.00	0.00	0.00	0.00	1	0.06	7.19	5.00	62.44	
		Jajpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	6.23	5.76	62.00	
		Dharmasala	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	11.90	?	52.85	
		Satpara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	6.50	?	60.24	
		Chandball	0.10	0.00	0.00	0.00	0.00	0.00	0.00	1	0.10	7.96	5.39	61.07	
SOUTH-WEST BENGAL.		Bhuddruck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	8.56	3.45	54.00	
		Sorah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	5.83	4.17	64.59	
		Balasore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	8.09	5.01	65.39	
		Jellapore	0.03	0.00	0.00	0.00	0.00	0.00	0.00	1	0.03	10.30	4.08	64.63	
		Haripodah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	7.29	3.77	60.16	
	24-Pergunnahs	Contal	0.31	0.00	0.18	0.19	0.00	0.00	0.00	3	0.38	17.14	6.04	62.81	
		Saugor Island	0.00	0.03	0.59	1.55	0.00	0.00	0.00	3	2.19	20.28	7.44	60.13	
		Tumlook	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	7.10	13.23	67.00	
		Midnapore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	4.72	3.54	47.06	
		Ghatal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	1.99	3.41	44.41	
	Howrah	Kukrahaty	0.00	0.00	0.00	1.10	0.00	0.00	0.00	1	1.10	10.25	?	50.90	
		Garbette	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1	0.03	3.58	?	46.23	
		Diamond Har- bour	0.00	0.00	0.00	1.43	0.00	0.00	0.00	1	1.43	11.65	4.17	61.07	
		Canning Town	0.00	0.00	0.00	0.40	0.15	0.00	0.00	2	0.55	14.03	?	66.49	
		Alipore Jail	0.00	0.00	0.00	1.45	0.04	0.02	0.00	3	1.51	9.08	3.44	61.91	
	Hooghly	Barrackpore	0.36	0.00	0.00	0.00	0.00	0.00	0.00	1	0.36	8.41	3.69	50.91	
		Dum-Dum	0.00	0.00	0.00	0.14	0.46	0.00	0.00	3	0.60	13.04	3.50	55.75	
		Baranati	0.00	0.00	0.00	0.08	0.03	0.00	0.00	2	1.01	12.10	3.76	55.77	
		Huseerhat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.08	10.85	3.54	58.67	
		Howrah	0.00	0.00	0.00	0.00	0.01	0.00	0.00	3	0.11	7.08	3.26	61.34	
	Bardwan	Moharaka (Colobertah)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	5.23	3.13	50.67	
		Sarampore	0.29	0.00	0.00	0.00	0.04	0.00	0.00	2	0.43	8.41	3.36	54.27	
		Hooghly	0.03	0.00	0.00	0.00	0.00	0.04	0.00	2	0.07	6.17	3.41	52.05	
		Jehanabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	3.31	3.67	51.67	
		Bardwan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	3.97	3.29	64.11	
	Bankura	Cutwa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	3.20	3.09	64.07	
		Ranagunge	1.23	0.00	0.00	0.00	0.00	0.00	0.00	1	1.23	8.33	3.54	63.54	
		Manbur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	3.38	?	60.43	
		Bankura	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	4.76	3.67	57.76	
		Bishenpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	4.66	3.45	50.05	
	Sourbhoon	Mahara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	5.02	2.42	59.23	
		Khatra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	6.01	3.23	40.06	
		Indas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	5.74	?	50.07	
		Kotalpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	6.64	?	64.04	
		Anda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	9.20	?	55.11	
	Nadda	Gungajalghati	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	3.87	?	63.75	
		Katpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	6.13	?	53.29	
		Nonamukhi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	4.61	?	62.74	
		Bh. Scory	0.00	0.40	0.00	0.00	0.00	0.00	0.00	1	0.40	6.50	3.92	61.94	
		Hetampore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	8.61	3.06	59.15	
	Khoolna	Rampore Haut	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	8.08	3.63	72.34	
		Boipore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	4.08	?	56.23	
		Murari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	7.11	?	56.46	
		Ranaghat	0.19	0.00	0.00	0.00	0.11	0.00	0.00	2	0.23	7.50	2.92	55.62	
		Kishnaghat	0.00	0.00	0.00	0.00	0.19	0.00	0.00	2	0.19	7.07	3.79	61.40	
	Jessore	Ohoadanga	0.00	0.00	0.00	0.00	0.60	0.00	0.00	1	0.60	8.27	3.05	47.05	
		Meherpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	13.25	2.99	54.90	
		Koochtee	0.00	0.00	0.00	0.00	0.00	0.16	0.00	2	0.24	6.99	4.29	52.00	
		Satkhiria	0.00	0.00	0.00	0.00	0.78	0.22	0.00	2	1.00	7.04	3.74	57.19	
		Haghirhat	0.00	0.00	0.00	0.00	1.02	1.50	0.00	2	2.52	8.55	4.37	62.61	
	Moorshedabad	Khoolna	0.13	0.00	0.00	0.00	1.05	0.03	0.00	3	1.24	7.40	3.27	52.39	
		Nakipur	0.00	0.00	0.00	0.00	6.95	0.00	0.00	1	6.95	10.13	?	75.03	
		Rampal	0.19	0.00	0.00	0.00	1.31	0.78	0.00	3	2.23	11.44	?	66.78	
		Narail	0.06	0.00	0.00	0.00	1.13	0.35	0.00	4	1.60	12.01	2.95	61.46	
		Jessore	0.36	0.00	0.00	0.00	0.54	1.79	0.04	4	2.73	9.74	3.99	64.49	
	Chittagong	Jhenidah	0.20	0.00	0.00	0.00	0.40	0.32	0.00	3	0.98	5.06	4.10	54.16	
		Magoorah	0.00	0.00	0.00	0.00	0.42	1.02	0.00	4	1.63	5.19	3.21	43.44	
		Bongong	0.00	0.00	0.00	0.00	0.45	0.00	0.00	1	0.45	6.00	3.76	46.06	
		Kandi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	4.81	5.64	64.00	
		Berhampore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	6.73	4.15	58.33	
	Chittagong Hill Tracts.	Lalbagh	0.03	0.00	0.00	0.00	0.00	0.00	0.00	1	0.03	7.17	4.37	61.85	
		Azimungo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	6.63	4.29	57.97	
		Jungipore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.09	8.44	3.02	61.33	
		Lalgola	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	9.30	4.10	64.70	
		Jagunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	8.23	?	61.69	
	Hackerunge	Akhrigunaj	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	5.50	?	?	
		Patkharai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	?	?	?	
		Cor's Bazar	0.00	0.00	0.00	0.03	0.20	0.06	0.33	4	1.23	2.98	5.54	137.50	
		Chittagong	0.00	0.00	0.00	0.20	0.30	0.31	0.32	3	0.73	3.99	4.40	160.93	
		Kutubdia	1.06	0.00	0.00	0.00	0.00	0.00	0.00	?	?	?	?	?	
Chittagong	Bakshali	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.44	3.06	5.64	68.34		
	Hill Tracts.	Kumra	0.00	0.00	0.00	1.50	0.15	0.20	2	0.44	3.06	5.64	68.34		
	Bakerunge	Patuakhali	0.00	0.00	0.00	0.00	0.00	0.00	2	1.08	9.40	4.02			

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 24th of October 1890—contd.

Administrative Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 18th October.	Sunday, 19th October.	Monday, 20th October.	Tuesday, 21st October.	Wednesday, 22nd October.	Thursday, 23rd October.	Friday, 24th October.	Number of rainy days.	of Rainfall week.				
NORTH-BENGAL.	Noakhally	Gournadi	0.30	0.00	0.00	0.00	1.45	0.00	0.00	3	1.51	5.40	?	42.00	?
		Baughal	0.30	0.00	0.00	0.00	1.50	0.00	0.00	3	1.50	5.40	?	42.00	?
		Noakhally	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	?	0.00	?
	Furzedpore	Fenny	0.00	0.30	0.00	0.00	0.00	1.53	0.00	3	4.12	10.03	6.71	62.58	109.65
		Harishpore	0.00	0.00	0.00	0.00	0.00	0.40	0.16	4	1.23	4.93	6.40	1,100.80	101.05
		Ramganj	0.30	0.00	0.00	0.00	1.43	0.33	0.00	3	2.45	4.80	?	62.28	?
	Dacca	Madaripore	1.13	0.00	0.00	0.00	0.00	0.23	0.04	3	3.40	7.71	3.43	40.91	51.67
		Furzedpore	0.43	0.00	0.00	0.19	0.00	0.18	0.16	5	3.43	7.38	3.79	40.43	50.25
		Goalundo	0.43	0.00	0.00	0.00	0.24	1.21	0.14	4	2.11	6.40	4.30	44.90	57.54
	Hill Tipperah	Munichgunge	0.11	0.00	0.00	0.00	0.00	0.30	2.70	0.00	4	3.10	4.17	4.61	57.78	67.61
Dacca		0.30	0.00	0.00	0.00	0.18	3.32	0.21	4	3.90	6.40	3.39	54.54	64.53	
Naraingunge		0.33	0.00	0.00	0.00	0.19	1.50	0.18	4	2.30	3.20	3.02	40.71	54.53	
Manichgunge		0.07	0.00	0.00	0.00	0.10	1.05	0.07	4	3.30	7.14	3.37	50.42	60.41	
Joydebpore		0.33	0.00	0.00	0.00	0.00	1.67	0.05	4	3.03	6.45	?	63.39	?	
Agartala		0.00	0.00	0.00	0.00	0.00	0.00	0.13	4	2.09	7.19	4.19	66.23	88.44	
Comilla		1.50	0.00	0.00	0.00	0.00	0.44	0.13	4	2.09	7.19	4.19	66.23	88.44	
Chandpore		0.75	0.00	0.00	0.00	0.78	0.70	0.12	4	2.33	5.07	5.04	66.73	73.50	
Brahmunbaria		1.03	0.10	0.00	0.00	0.24	3.30	0.43	5	4.12	8.19	4.00	64.46	60.69	
Mymensingh		Ramchandrapore	0.87	0.77	0.00	0.00	0.00	0.43	4.33	0.19	5	6.89	8.18	?	75.84
	Nasirpore	0.30	0.00	0.00	0.00	0.00	0.00	0.00	3	0.70	1.80	?	34.81	?	
	Daudkandi	0.09	0.00	0.00	0.00	0.53	1.05	1.02	4	3.49	4.51	?	20.74	?	
	Kasba	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	0.33	0.33	?	0.33	?	
	Laksham	0.00	0.00	0.00	0.00	0.00	1.40	0.00	1	1.40	3.22	?	68.55	?	
	Kishoreganj	0.00	0.00	0.00	0.00	0.00	0.00	1.23	3	1.90	6.10	4.78	69.67	68.20	
	Atia (Tangail)	0.00	0.00	0.00	0.00	0.00	0.00	1.11	3	1.90	6.10	4.78	69.67	68.20	
	Mymensingh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	3.79	8.48	4.78	77.00	72.13	
	Jalpaiguri	2.13	0.00	0.00	0.00	0.00	0.00	0.00	3	2.32	10.29	4.28	79.16	63.88	
	Bogra	Narainkani	0.00	0.75	0.00	0.00	0.00	0.00	0.00	3	3.87	10.92	5.16	90.54	79.10
Subornakhal		0.15	0.00	0.00	0.00	0.00	0.00	0.00	3	0.07	6.86	?	57.84	?	
Durgapore		0.43	0.00	0.00	0.00	0.10	0.00	0.00	3	1.13	12.03	?	11.27	?	
Shorepore		0.19	0.00	0.00	0.00	0.00	0.14	0.00	3	0.93	9.48	?	67.41	?	
Dumkani		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	11.01	?	72.90	?	
Pubna		0.14	0.00	0.00	0.00	0.00	0.16	0.00	4	0.61	4.14	4.18	46.09	53.16	
Serajganj		0.04	0.00	0.00	0.00	0.04	0.04	0.00	3	0.10	7.10	3.66	62.63	54.07	
Shorepore		0.00	0.00	0.00	0.00	0.00	0.00	0.11	1	0.11	10.18	3.96	77.27	57.00	
Nowkhilla		0.01	0.00	0.00	0.00	0.00	0.00	0.00	3	0.66	10.18	4.94	60.42	52.08	
Bogra		0.18	0.00	0.00	0.00	0.00	0.00	0.11	3	0.98	12.06	3.28	70.34	50.48	
Rajshahi	Panchbibi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	13.00	4.25	91.40	55.30	
	Boanish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	10.31	3.84	71.22	51.63	
	Natore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	0.77	9.03	3.70	67.22	53.29	
	Nangam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	9.03	2.01	68.15	51.34	
	Lalpara	0.43	0.00	0.00	0.00	0.00	0.00	0.00	1	0.43	8.06	?	62.38	?	
	Manda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	12.19	?	47.28	?	
	Maldah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	6.67	3.27	64.03	40.70	
	Chanchal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	8.33	2.40	60.02	55.43	
	Gajni	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	6.04	?	64.40	?	
	Shibganj	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	13.10	?	62.54	?	
Dinapore	Mohadapore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	8.31	3.00	67.94	55.33	
	Churamon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	9.78	2.36	60.28	51.74	
	Rangpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	13.77	3.05	62.76	57.99	
	Dinapore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	14.70	3.50	66.80	61.73	
	Haldighat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	10.30	3.33	51.01	51.74	
	Thakurgaon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	17.31	?	167.04	?	
	Bhawanipara	0.50	0.00	0.00	0.00	0.00	0.00	0.00	1	0.50	30.90	4.41	123.70	61.35	
	(Gyabanda)	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1	0.04	10.61	4.08	66.52	72.73	
	Rangpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	17.67	4.18	95.69	73.30	
	Jalpaiguri	Bangora	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	15.37	4.50	111.28	63.46
(Niphameri)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	17.78	?	97.63	?	
Jalpaiguri		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	18.20	4.01	156.28	115.01	
Alipore		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	14.27	?	147.47	?	
Falacatta		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	10.50	?	140.30	?	
Debiganj		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	13.23	?	115.70	?	
Rhapalpara		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	15.24	?	122.32	?	
(Narpatia)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	16.93	4.73	124.92	60.00	
Dinhat		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	12.40	4.50	109.57	110.70	
Cooch Behar		Cooch Behar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	13.01	3.40	140.45	109.44
	Makligunge	0.10	0.00	0.00	0.00	0.00	0.00	0.00	1	0.10	14.14	5.07	147.01	117.54	
	Naraingunge	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1	0.04	19.00	8.26	300.65	185.74	
	Busa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	13.34	4.16	178.31	141.80	
	Siliguri	0.13	0.00	0.00	0.00	0.00	0.00	0.00	1	0.13	10.63	3.85	150.33	105.04	
	Darjeeling	0.13	0.00	0.00	0.00	0.00	0.00	0.00	2	0.08	12.44	3.39	153.00	76.70	
	Kalimpong	0.40	0.00	0.00	0.00	0.00	0.00	0.00	1	0.40	14.01	?	162.78	?	
	Kurseong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.40	14.01	?	162.78	?	
	Purnea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	13.32	3.50	165.33	68.77	
	North Bhagalpur	Arrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	3.43	3.79	63.73	62.34
Purnea		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	6.08	3.91	89.35	59.84	
Gondwara		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	15.75	?	160.43	?	
Balsampore		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	7.40	?	63.03	?	
Mariari		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	3.23	3.30	61.61	48.16	
Kaibagaj		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	1.00	3.19	63.21	46.95	
Maddapore		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	2.66	?	49.30	?	
Sopaul		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	0.73	2.55	51.70	41.71	
Protoganj		0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	0.73	2.55	51.70	41.71	
Durbhanga		Tajpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	2.37	2.38	54.68	44.44
	Durbhanga	0.00													

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 24th of October 1890—concl

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of month.	Average rain-fall from 1st of month.
			Saturday, 18th October.	Sunday, 19th October.	Monday, 20th October.	Tuesday, 21st October.	Wednesday, 22nd October.	Thursday, 23rd October.	Friday, 24th October.	Number of rainy days.	Rainfall week.				
NORTH BENGAL—concluded.	Chumpra...	Motihari	0.28	...	...	...	...	...	...	1	0.28	0.46	3.25	72.08	...
		Battiah	0.05	...	...	...	...	...	...	1	0.05	0.69	3.40	64.89	...
		Bogake	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
SOUTH BENGAL	Barua	Burhura	0.02	...	...	...	...	...	...	1	0.02	2.12	?	58.28	...
		Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	1.07	4.06	52.67	...
		Bawan	...	...	...	...	...	...	...	Nil	Nil	0.81	3.28	54.84	...
	Shahabad	Chuprah	...	...	...	...	...	...	...	Nil	Nil	1.05	3.04	48.27	...
		Buxar	...	0.23	...	...	...	...	...	1	0.23	1.50	3.56	52.47	...
		Behree	...	...	...	...	...	...	...	Nil	Nil	0.50	3.76	45.14	...
	Gya	Bhaboah	...	...	...	...	...	...	...	Nil	Nil	0.81	3.09	41.11	...
		Rasorain	...	...	...	...	...	...	...	Nil	Nil	0.14	3.48	44.19	...
		Arrah	...	0.12	...	...	...	...	...	1	0.12	3.20	3.71	60.48	...
	Patna	Mohania	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
		Aurungabad	...	...	...	...	...	...	...	Nil	Nil	0.51	3.54	59.40	...
		Gya	...	...	...	...	...	...	...	Nil	Nil	0.34	1.76	60.04	...
	Monghyr	Nowadah	...	...	...	...	...	...	...	Nil	Nil	0.45	3.29	54.94	...
		Jehanabad	...	0.08	...	...	...	...	...	1	0.08	0.42	3.14	58.36	...
		Arwal	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
CENTRAL NAG-PUR.	Patna	Bandhagar	...	...	...	...	...	...	...	Nil	Nil	1.07	?	36.81	...
		Sherrphat	...	...	...	...	...	...	...	Nil	Nil	0.80	?	45.80	...
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
	Monghyr	PakriBarawan	...	...	...	...	...	...	...	Nil	Nil	3.07	?	54.24	...
		Patna	...	...	...	...	...	...	...	Nil	Nil	1.02	3.55	50.02	...
		Dinapore	...	...	...	...	...	...	...	Nil	Nil	1.97	3.57	52.13	...
	South Bhagulpore.	Mohar	...	...	...	...	...	...	...	Nil	Nil	1.11	3.45	46.95	...
		Barh	...	...	...	...	...	...	...	Nil	Nil	1.25	3.54	43.25	...
		Bichram	...	0.53	...	...	...	...	...	1	0.53	1.38	?	58.32	...
	North Bhagulpore.	Hiles	...	...	...	...	...	...	...	Nil	Nil	1.07	?	50.24	...
		Baganpore	...	...	...	...	...	...	...	Nil	Nil	3.28	3.28	44.29	...
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	3.38	3.54	54.84	...
	North Per-gunnahs.	Jamui	...	...	...	...	...	...	...	Nil	Nil	3.01	3.16	60.22	...
		Gopri	...	...	...	...	...	...	...	Nil	Nil	4.34	?	76.44	...
		Sheikhpura	...	...	...	...	...	...	...	Nil	Nil	1.07	?	47.70	...
SOUTH BENGAL	South Bhagulpore.	Hhagulpore	...	...	...	...	...	...	...	Nil	Nil	2.41	3.53	59.77	...
		Hauka	...	...	...	...	...	...	...	Nil	Nil	5.63	3.69	42.11	...
		Kalyans	...	...	...	...	...	...	...	Nil	Nil	5.77	?	68.06	...
	North Per-gunnahs.	Bongson	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
		Rajmohal	...	...	...	...	...	...	...	Nil	Nil	8.59	3.40	50.28	...
		Goda	...	...	...	...	...	...	...	Nil	Nil	5.60	3.54	50.75	...
	Hamirbagh...	Pakour	...	...	...	...	...	...	...	2	0.23	12.19	3.05	74.16	...
		Nya Doomka	...	0.14	...	...	...	...	...	Nil	Nil	12.24	3.70	94.00	...
		Doghrur	...	...	...	...	...	...	...	Nil	Nil	4.18	3.50	40.48	...
	Lohardugga...	Jamtara	...	...	...	...	...	...	...	Nil	Nil	15.25	2.57	74.28	...
		Mohasama	...	...	...	...	...	...	...	Nil	Nil	3.23	?	48.81	...
		Nasibai	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
	Singbhoom...	Pachamba	...	...	...	...	...	...	...	Nil	Nil	3.08	3.55	55.39	...
		(Guridi)	...	...	...	...	...	...	...	Nil	Nil	1.33	3.09	40.95	...
		Hazaribagh	...	...	...	...	...	...	...	Nil	Nil	0.70	3.83	38.89	...
SOUTH BENGAL	Lohardugga...	Bentagurab	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
		Mahudi Hills	...	...	...	...	...	...	...	Nil	Nil	1.90	3.56	50.80	...
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	3.00	?	50.24	...
	Singbhoom...	Barh	...	...	...	...	...	...	...	Nil	Nil	3.05	?	47.04	...
		Chatre	...	...	...	...	...	...	...	Nil	Nil	5.80	?	57.34	...
		Karagdeha	...	...	...	...	...	...	...	Nil	Nil	3.63	?	50.24	...
	Lohardugga...	Ramghar	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
		Lohardugga	...	...	...	...	...	...	...	Nil	Nil	1.70	3.20	53.19	...
		Banchn	...	...	...	...	...	...	...	Nil	Nil	2.54	3.37	43.57	...
	Singbhoom...	Palamow	...	...	...	...	...	...	...	Nil	Nil	0.59	3.24	44.27	...
		Silk	...	...	...	...	...	...	...	Nil	Nil	5.40	?	43.00	...
		Ratuma	...	...	...	...	...	...	...	Nil	Nil	1.29	?	43.03	...
	Manbhoom...	Hossainabad	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41.75	...
		Gorwah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38.30	...
		Chyabaza	...	...	...	...	...	...	...	Nil	Nil	1.73	3.24	43.04	...
SOUTH BENGAL	Singbhoom...	Chakradhar-	...	...	...	...	...	...	...	Nil	Nil	1.70	?	24.83	...
		pore.	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
		Chatsilla	...	...	...	...	...	...	...	Nil	Nil	5.25	?	51.48	...
	Manbhoom...	Baharagure	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
		Purulla	...	...	...	...	...	...	...	Nil	Nil	3.08	3.50	64.23	...
		Gobindpore	...	...	...	...	...	...	...	Nil	Nil	3.57	3.06	33.63	...
	Singbhoom...	Raghunath-	...	...	...	...	...	...	...	Nil	Nil	3.54	?	51.80	...
		pore.	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...
		Barrabhoom	...	...	...	...	...	...	...	Nil	Nil	1.94	?	44.15	...
	Singbhoom...	Jhalde	...	...	...	...	...	...	...	Nil	Nil	5.51	?	64.71	...
		Ches	...	...	...	...	...	...	...	Nil	Nil	5.23	?	50.13	...
		...	...	...	...	...	...	...	...	Nil	Nil	...	?	...	...

Explanation.—... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 28th October 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
24TH OCTOBER 1890.**

In last week's report it was noted that conditions at the end of the week were favourable to the formation of a cyclonic storm in the Bay. Subsequent events have proved that a storm was then in the course of formation in the usual birthplace of these whirls in October—to the south-west of the Andamans. The storm was a very small one, and its centre advanced very much closer to the Burmah coast than is usual with storms advancing up the Bay. On Saturday 18th, Sunday and Monday morning, no telegrams were received from Diamond Island, and it illustrates the extreme importance of that station from a storm-warning point of view, that the telegram received on Monday afternoon about 3-30 immediately indicated the passage of a storm of which the ordinary coast stations (Bassein observations being wanting) gave no indications other than might be characterized as "suspicious." The whirl on Monday at 8 A.M. was approaching the Burmah coast, but curved off and advanced in a north-westerly direction and apparently made for the coast of the Circars, as is usual with October storms. There was, however, a trough of low pressure extending from Mymensingh, through Dacca and Burrisal, out into the Bay, and as the barometer was very high behind the Circars coast, the whirl was forced up in the direction of the Sunderbuns, which it crossed on the morning of 22nd at 10 A.M.

Pressure at the beginning of the week was relatively highest in Madras and lowest in North Bengal. A very rapid fall took place on Saturday over the whole eastern and northern area, and a brisk fall at all places in the south-east except Negapatam and Trincomalee. This was followed by a series of very small irregular changes on Sunday and a rapid recovery on Monday, especially in Burmah, behind the depression. This feature was still more pronounced on Tuesday as the depression advanced up the Bay, and became the dominant factor of the weather in Bengal. On Wednesday morning it advanced across the coast, the lowest pressure recorded being 29.900" at Saugor Island. On Thursday morning it was between Jessore and Dacca, lowest pressure recorded being 29.858" at Furreedpore and subsequently it began to fill up rapidly, spreading itself out along a low-pressure area extending from Jalpaiguri, through Dhubri, up into Silchar. Whilst the recovery was taking place behind the depression in Bengal, the barometer was falling slowly in Madras, and the distribution approximating more nearly to the ordinary cold weather conditions.

Temperature has been governed to a very great extent by the depression, and, as might be expected, was below the normal of the season. This defect, however, was due almost entirely to low maximums, for minimums were in few cases below the normal, and at the end of the week were decidedly above the average all over the province. All this was due of course to the unusually damp weather.

Rainfall has been reported from few stations except those in the immediate path of the small storm. The stations chiefly affected were Noakholly (4.27"), Mymensingh (3.77"), Furreedpore (3.47"), and Jessore, Dacca, Comilla, and Burrisal, each of which received over two inches. The only very heavy fall in twenty-four hours was 3.07" at Mymensingh on the 23rd.

Humidity and cloud proportion were very high for the season at the beginning of the week, but rapidly decreasing at the end.

Weather during the week was entirely subject to the depression. It has cleared the air, passed away and left conditions very favourable for an early cold season.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 24th of October 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	89.7	69.9	86.8	78.1	80.0	-1.3	0.36	1.81	-0.98	0.7	1.0	-0.9	7.83	8.08	60.10	60.28
South-West Bengal ...	89.3	70.4	84.8	78.5	79.3	-1.8	0.67	0.49	+0.17	1.8	1.0	+0.3	7.83	8.00	58.41	56.23
East Bengal	88.1	69.8	84.1	78.4	78.7	-1.3	2.80	0.87	+1.93	8.3	1.3	+2.1	6.67	6.56	71.34	71.08
North Bengal	86.5	63.6	83.6	71.0	77.4	-1.8	0.13	0.29	-0.16	0.7	0.7	0	12.29	8.80	68.18	67.83
North Bihar	87.7	66.8	84.3	76.6	77.6	-1.3	0.04	0.08	-0.04	0.3	0.6	-0.1	8.59	8.04	66.45	67.37
South Bihar	88.4	68.0	84.9	69.6	77.3	-1.4	0.03	0.23	-0.20	0.3	0.5	-0.3	8.65	8.00	64.67	62.36
Chota Nagpur	81.9	59.9	80.3	62.6	71.4	-2.9	Nil	0.26	-0.26	0.0	0.8	-0.8	1.97	2.52	45.09	61.67
Assam	93.0	66.9	84.8	71.5	77.9	-0.8										

* Chyebasen not included.

METEOROLOGICAL OFFICE, BENGAL;

J. H. GILLILAND,

The 28th October 1890.

For Offg. Meteorological Reporter to the Govt. of Bengal.

**Results of the Meteorological Observations taken at the Alipore Observatory from
19th to 25th October 1890.**

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				Prevailing direction.	Miles recorded.	Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.				
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Oct.	19th	144.8	5.6	29.850	79.0	84.3	11.1	73.2	75.9	0.855	74.5	87	Calm and variable ..	18	0.02	Partially cloudy, d, =, a.
"	20th	140.4	1.2	.903	78.1	81.6	9.8	71.8	75.9	.869	75.0	90	Calm and variable ..	16	1.22	Chiefly cloudy, o; g, p, a,
"	21st	143.2	4.6	.917	78.3	83.5	11.1	72.4	74.3	.900	72.5	83	N and calm ..	57	Nil	Chiefly cloudy o, a.
"	22nd	104.3	Nil	.856	77.8	79.1	5.4	73.7	74.4	.815	73.1	84	NNW and N ..	154	0.03	Chiefly cloudy o, g, d.
"	23rd	149.4	9.9	.861	79.3	85.5	12.0	73.5	75.6	.837	73.9	84	NW and NNW ..	83	Nil	Chiefly clear, a.
"	24th	144.3	10.4	.900	79.2	85.7	12.5	73.2	75.9	.850	74.3	86	NNW and calm ..	32	"	Chiefly clear, a.
"	25th	140.4	10.3	.930	77.2	84.4	14.2	70.2	72.6	.785	70.0	80	NNW and calm ..	45	"	Clear, a,

The mean pressure of the seven days 29.888
The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.862

The total number of hours of bright sunshine 42.0
The maximum possible number of hours of sunshine 80.2

The mean temperature of the seven days 78.4
The average temperature of the corresponding period for 24 years, S.-G.'s Office 80.4
The extreme variation of temperature 15.5
The maximum temperature 85.7

The highest velocity of the wind in one hour 12
The highest pressure of wind on one square foot ?

The mean relative humidity 85
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 77

The total fall of rain from 19th to 25th October 1890 1.27
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 1.40
The total fall from 1st January to 25th October 1890 61.24
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 63.68

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.
The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.
The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.
The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; p, passing temporary showers; a, dew; =, fog.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 27th October 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 19th to 25th October 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall per 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
October	19th	29.951	80.3	85.9	11.3	74.6	83.4	77.3	.856	74.5	75	...
"	20th	29.975	79.8	83.9	8.3	75.6	81.8	77.0	.854	74.3	80	...
"	21st	29.930	78.9	84.9	12.1	73.8	80.4	74.5	.772	71.5	74	0.80
"	22nd	29.879	78.6	82.9	8.6	74.3	76.8	74.8	.837	73.9	91	0.07
"	23rd	29.912	79.6	86.4	13.6	72.2	82.6	76.5	.832	73.7	75	...
"	24th	29.961	80.8	87.2	12.9	74.3	83.6	77.0	.840	74.0	73	...
"	25th	30.008	78.6	86.4	15.6	70.8	82.6	69.6	.550	61.8	49	...

The mean 10 A.M. pressure of the seven days	...	...	...	Inches.
The mean temperature of the seven days	...	...	...	79.5
The extreme variation of temperature	...	...	...	16.4
The maximum temperature	...	...	...	87.2
The mean 10 A.M. relative humidity of the seven days	...	...	...	% 74
The total fall of rain from 19th to 25th October 1890	...	...	...	Inches. 0.87
The daily mean temperatures are the crude means of maximum and minimum temperatures.				

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 27th October 1890.

Weekly Return of Traffic Receipts on Indian Railways.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 11th October 1890, on 691 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week (on 691 miles open) ...	77,370	Rs. 23,800	Mds. 1,63,740	Rs. 33,800	Rs. 6,420	Rs. 60,020	12,250	11,750	24,000
Or per mile of railway ...	111'97	41'68	236'99	48'91	9'29	86'88	.....	.....	.....
For previous 13 weeks of half-year ...	1,003,904	3,90,459	34,26,784	4,07,960	88,077	8,86,516	164,385	184,023	348,408
Total for 14 weeks ...	1,081,270	4,18,259	35,90,524	4,41,760	*94,497	9,54,556	176,605	166,853	343,458
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year ...	68,839	25,258	2,45,907	19,847	5,632	80,737	10,704	11,314	22,018
Per mile of corresponding week of previous year on 640 miles open ...	106'07	39'32	378'90	30'88	8'86	78'16	.....	.....	.....
Total to corresponding date of previous year ...	1,078,231	3,94,500	36,43,890	4,51,953	1,18,363	9,64,634	166,400	189,190	355,590

* Steam-boat earnings for the week, Rs. 4,940.
Ditto ditto to date, .. 71,490.* Steam-boat earnings for the week, Rs. 50.
Ditto ditto to date, .. 2,510.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 11TH OCTOBER 1890.			RECEIPTS FOR WEEK ENDING 12TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 11TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH OCTOBER 1889.			Total increase to 1890-91.	Total decrease to 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
691	Rs. 60,020	86'88	640	Rs. 80,737	78'16	671	Rs. 22,78,216	121'88	640	Rs. 22,90,477	136'14	Rs.	Rs.

N.E.—Earnings of B. and N.-W. Section.

Earnings of Tirhoot Section.

	Rs.	Rs.
Coaching	23,010	15,700
Goods	15,680	30,230
Other earnings	18,090	2,750
Total	56,780	48,740

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 4th October 1890	...	...	14,028
Corresponding period of 1889	...	...	16,310
Decrease	...	...	2,182
Receipts per mile for week ending 4th October 1890			
Corresponding period of 1889	...	...	Rs. A. P. 275 0 11
Decrease	...	...	317 18 6
Receipts from 1st July to 4th October 1890			
Corresponding period of 1889	...	...	1,29,890
Decrease	...	...	1,66,210
Decrease	...	...	36,320



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, NOVEMBER 5, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE PRESIDENCY DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Darjeeling, the 21st October, 1890.

RESOLUTION.

READ—

The General Administration Report of the Presidency Division for the year 1889-90.

Mr. Smith continued in charge of the Division during the year, and has again submitted a full and excellent report. There is a curious omission of the district of Moorshedabad in the third paragraph, which is not explained.

2. The Commissioner's tour was well planned, and the Lieutenant-Governor is pleased to observe that, with a single exception, all district officers completed useful tours of the requisite length. In Jessore district officers, in consequence of the indigo disturbances, were out altogether for 114 days. In Moorshedabad the Collector was out for 104 days, part of his time being devoted to the flood caused by the breach of the Rampal embankment and to the consequent distress. The Collectors of Nuddea and Khulna were out for 106 and 93 days respectively. The Lieutenant-Governor is disposed to agree with the Commissioner that, though the rapid succession of district officers in the 24 Pergunnahs affords some excuse, the period of 60 days especially fixed for that district should have been completed.

Mr. Forbes, however, did his best to make up the deficiency by a useful tour of 41 days. All the sub-divisional officers in the Division were out for the prescribed time, with the exception of the sub-divisional officer of Kandi, whose tour was unavoidably interrupted. In almost every case Assistant Magistrates posted to head-quarters were out for a longer or shorter time.

3. There was a paucity of rain at the beginning of the year; later on there were local floods in Moorshedabad and Nuddea, but the chief and most widely-spread characteristic of

Weather and crops. the season was the unusually late rain in November, which damaged the cold-weather crops and in some places also the amun harvest. In the result the harvests generally were slightly better than those of the preceding year.

4. Judging from the recorded mortality, the past year was more healthy than either of the two preceding years. Jessore and Khulna show worse on paper, but it is not known how far this is due to improved registration. The other districts show improvement. There was an increase of cholera in Nuddea and Moorshedabad, attributed to the want of rain in the early months. Fever, on the other hand, was not so fatal. Owing to the amalgamation during the year of a considerable portion of the Suburbs with the town of Calcutta, no useful comparison can be made in the 24-Pergunnahs. There was an outbreak of small-pox in that district in spite of a considerable extension of vaccination, 335 deaths from this cause having occurred, as against 49 and 28 in the two preceding years. It is satisfactory, however, to note that the practice of inoculation appears to have been stamped out. The scanty harvests of 1888 were followed by high prices in 1889, and there was some pressure in the Diamond Harbour sub-division of the 24-Pergunnahs, and in the Lalbagh and Jungipore sub-divisions of Moorshedabad, which necessitated relief operations until a good aus and jute crop put an end to further anxiety. There was also some scarcity in the Magurah and Bongong sub-divisions of Jessore; but as to the remainder of the Division the Commissioner writes that "the condition of the cultivating classes was one of fair prosperity, as they were able to make up for the deficiency of the crops by the high prices which prevailed." He adds, however: "The labouring and middle classes, dependent on service and fixed income, suffered on account of the high prices of food-grains. Living in a state of transition, the latter class have not only to keep up old customs and appearances, but also have to cope with the wants of the day, and few of them have sufficient strength of character to resist and set themselves free from old trammels."

The wages of labour were not affected by fluctuations in price, and remained almost identically the same as in the two preceding years.

5. As in the previous year, 46 mills, presses and factories were at work, giving employment to nearly 57,000 persons in the manufacture of cotton-twist and yarn, gunny-bags

Manufactures and trade. and cloth, sugar, paper, silk, ice, shell-lac and lac-dye. The bone-crushing factory at Tengra was closed, but this is counterbalanced by a saltpetre refinery at Ballia-ghatta. Owing to the state of the market the outturn of jute was less than in 1888-89. Cotton and other industries appear to have flourished, and especially indigo. The outturn of indigo in Nuddea was 6,650 maunds, valued at Rs. 11,52,806; in Jessore 2,695 maunds, valued at Rs. 4,54,488; and in Moorshedabad 4,358 maunds, valued at Rs. 8,33,530, the outturn and value being in every case considerably in excess of those of the previous year, though lower prices ruled in the market. The important sugar industries were also generally prosperous, though imported sugar is usurping the place of the local article in Khulna. In Moorshedabad the year was favourable to silk, both as to outturn and value. The total weight of traffic registered between the mofussil and Calcutta shows a decline of about 9½ lakhs of maunds, while the returns of trade between Calcutta and the mofussil are nearly stationary. The import of rice into Calcutta was less by nearly 4½ lakhs of maunds, and the export greater by over 3 lakhs—facts which afford a useful commentary on the ready adjustment between trade and the varying conditions of different seasons. There was a further decrease this year in the traffic over the Nuddea river, and the Lieutenant-Governor would have been glad of some explanation. The traffic in Khulna is still carried principally

by river, though the railway has appropriated a portion of the jute trade of Eastern Bengal.

6. There was an increase of cognizable crime, chiefly under the head of house-breaking and other offences against property, attributed to the high prices current during the year.

Police and crime.

In other respects the returns do not call for any criticism beyond the remarks made by the Commissioner. With regard to the conduct of the police, the Commissioner quotes with approval the following observations by the Magistrate of the 24-Pergunnahs:—

“The police of the district cannot, as a body, be deemed efficient, and are in no way superior to the men found in districts more remote from the metropolis. There are a few smart and conscientious officers, but, on the whole, the standard of intelligence and honesty is low. Better materials cannot be procured while the pay of the lower ranks continues on its present low scale, and reward for thoroughly good service does not go beyond the rank of Inspector. The important work of investigation of criminal cases is as a rule done only fairly, and there is a lack of energy, patience, and detective capacity which causes the failure of many serious cases.”

7. The percentage of collections of the land revenue on the gross demand was 95·69, the total collected being Rs. 51,58,542.

Revenue.

There was a decrease in the excise revenue, chiefly due to the abolition of the outstill system in the 24-Pergunnahs and Nuddea, and the consequent decreased consumption of country liquor, to which the closing of several shops by order of the Commissioner of Excise also contributed. There was, however, an increase in the consumption of rum in Calcutta, no change having been made in the rate of duty, which stands at Rs. 4 per gallon. There was a decrease in the consumption of salt in both the protected areas in the 24-Pergunnahs and Khulna, attributed partly to illicit manufacture, partly to a smaller number of reapers having come into the district during the harvest time, and partly to a smaller number of feasts having been celebrated owing to the poor outturn of the harvest. The gross revenue from stamps amounted to Rs. 39,46,935, and the net increase, taking receipts and charges, amounted to Rs. 1,27,623. The net demand of income-tax was Rs. 21,33,988, or an increase of 7·5 per cent. on the demand of last year. The collections were 89·6 per cent. as against 90·9, the worst result coming from Jessore, where the Deputy Collector in charge did not pay sufficient attention to his duties.

8. The following statistics, given by the Commissioner, are interesting:—

Education.

“The area of the Presidency Division is 12,021 square miles, and it has a population of 7,771,693 souls, of whom 3,895,365 are males and 3,876,328 females. Calculating at 15 per cent. of the total number, the school-going population would consist of 584,304 boys and 581,449 girls. The numbers attending the schools being 180,592 boys and 11,650 girls, we have of all boys of a school-going age 1 in 3·2 and of girls 1 in 49·9 only at school. The total number of schools on returns being 5,913, there is one school for a little over two square miles of area.” Making allowance for the transfer from the 24-Pergunnahs of part of the Suburbs of Calcutta, there was still a slight decrease in the number of schools and pupils, extending to the number of girls' schools and of girls under instruction and to the number of Mahomedan pupils. It is difficult to account for such retrogression in the Presidency Division.

District and Local Boards and Municipalities.

9. Mr. Smith writes:—

“From what I have seen, it seems to me that, on the whole, the system of local self-government has continued to work smoothly and with fair success.”

With regard to municipalities, the transfer of jurisdiction in the 24-Pergunnahs has been already alluded to, and was noticed in the Resolution last year. The Commissioner observes:—

“The attendance of Commissioners at meetings has been on the whole fair, and they have taken interest in the administration of the municipalities under their charge.”

In another passage the Commissioner has a word to say in favour of Rate-payers Associations, which “display considerable activity in criticising the proceedings of Municipal Commissioners, their Chairmen and Vice-Chairmen, and serve as a check upon irregular proceedings and extravagant expenditure of

public money." Criticism is wholesome, but in unintelligent hands is apt to degenerate into obstruction. The Lieutenant-Governor is pleased to observe that there are no complaints in the Presidency Division on this score.

Public feeling and the Public Press.

10. The Commissioner remarks:—

"Public opinion on questions of general interest is chiefly confined to the educated classes living in towns, and it is formed and guided by the Calcutta press, which has a large circulation in the districts of this Division. Municipal discussions, which are not uncommon, excite much feeling and discussion, but they are purely of local interest and attract no attention beyond the towns concerned. The masses of the people only interest themselves in such matters as concern them. To matters of general interest they are perfectly indifferent."

Rumour might carry to mofussil villages the news of the visit of an English Prince and Heir-Apparent, or of a meeting of Congress at Bombay, but to the majority such occurrences would appear remote and indistinct, though they might have a passing effect on the imagination. Of local events the indigo disputes in Jessore have perhaps received a larger share of public attention than any other. In the beginning there were two centres of discontent in the district, but it was some time before the quarrel reached the acute stage and attracted general notice. This happened when the ryots had recourse to those tactics of violence which are always characteristic of agrarian disputes in this country. The public peace was so far threatened that it became necessary to make a special administrative arrangement, and Mr. Lusson was placed in charge of the two sub-divisions of Jhenidah and Magurah—an arrangement which was discontinued on the transfer of Mr. Lusson on promotion as district officer to Moorshedabad. The excitement culminated in two serious riot cases, which were dealt with in the Courts. The whole subject has been considered in another Department of this Government, and it is only necessary to say here that the local excitement has to a great extent subsided, and that the Lieutenant-Governor hopes that the public peace will be maintained.

11. In Nuddea, the Maharaj Kumar of Nuddea came of age and took over his estate from the Court of Wards. He is said to be taking great personal interest in its management.

Conduct of zemindars.

In Jessore, the only landlord who has been highly spoken of by the Collector is the Rajah of Naldanga. In Moorshedabad, the Nawab Bahadur, the Maharani Surnomoyee, and other zemindars received the acknowledgments of Government for their liberality during the distress. One of the Nawab's brothers, Saliman Syed Wahid Ali Mirza Bahadur, was appointed a Municipal Commissioner and Honorary Magistrate during the year.

12. The Lieutenant-Governor desires to acknowledge the care and success with which Mr. Smith has managed his Division during the year. Mr. Ritchie rendered excellent service in Moorshedabad, especially in connection with the inundations in August and September 1889. Mr. Forbes sustained his reputation as an energetic District Officer, and Baboo Durgagati Banerjee, as Deputy Collector of Calcutta throughout the year, is very favourably mentioned. The Commissioner's remarks on the merits of officers will be forwarded to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

C. E. BUCKLAND,

Offg. Secretary to the Govt. of Bengal.

RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE
BURDWAN DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Darjeeling, the 24th October, 1890.

RESOLUTION.

READ—

THE General Administration Report of the Burdwan Division for the year 1889-90.

The Division was in the charge of Mr. Clay for eight months, of Mr. Alexander for three months, and for the remaining month of the year of Messrs. Buckland and Toynbee. Although Mr. Toynbee took charge just before the close of the year, he is well acquainted with the Division and has made his report full and interesting.

2. The Commissioner's tour extended to sixty days, in the course of which he inspected all the district offices. Only one sub-divisional office and treasury, however, were inspected, but the Commissioner hopes to be able to inspect them all during the current year. All the Sub-divisional Officers were on tour for the prescribed period of 90 days. Mr. Grant in Beerbhoom and Mr. Tayler in Bankoora, however, were out for only 87 and 85 days respectively; and in Midnapore, owing to the change of officers and other causes, the total touring done amounted to only 66 days. As regards Howrah, the Lieutenant-Governor accepts the Commissioner's view that Mr. Currie's tour of 60 days was sufficient in view of the size of the district.

3. In Beerbhoom and Howrah the rainfall was sufficient, but elsewhere it was not only insufficient in quantity but was most unevenly distributed, and consequently the rice crops are reported to have averaged only 13·1 annas. It seems doubtful however, from an examination of the figures, whether the rule that the average crop is to be taken as 16 annas, which has been misunderstood elsewhere, has been properly applied in all the districts, and if so, the crops throughout the Division must probably be taken as nearly average. In addition to this the prices obtained were exceptionally high, and the Commissioner considers that the people were fairly well off. As regards the coolies or labourers, however (who largely consist of temporary immigrants), it is stated that their wages remained almost stationary in spite of the high prices. Although the material condition of the people was good, the public health of the Division during the year was, as elsewhere, bad—fever being especially prevalent and there being also an extraordinary epidemic of influenza, which caused considerable suffering and public inconvenience, although seldom attended with fatal results.

4. The trade and manufactures of the districts were, on the whole, in a flourishing condition during the year. At the Barakar iron works the value of pig-iron and castings turned out is reported to have been 33 per cent. greater than in the previous year, and the six firms which have iron works in Howrah are all said to have done well. As regards coal, it is stated that some new coal-pits were worked in the district of Burdwan, and that the export from Ranigunj was 1,227,990 tons as against 1,101,079 and 944,449 tons in the two preceding years. Indigo also has done well, the crop having been a good one throughout the Division and four new factories having been opened. On the other hand, it appears that the output of the Balli paper mills fell considerably below that of the two preceding years, and that the cotton industry in Burdwan and the silk industry in Bankoora are declining. In Beerbhoom, however, the statistics furnished show that silk is improving. The information regarding the Hooghly jute mills is said to be very incomplete; but, so far as could be ascertained, the operations were restricted owing to excess production. Some of the explanations regarding the export of rice are not readily intelligible. In Burdwan it is said that the export in 1889-90 decreased owing to the bad harvests of two successive years; but it is not clear how the harvest of the previous year can have affected the export of the year under review, although possibly the meaning is that a smaller area was sown with rice. In Bankoora it is said that the export fell off owing to the absence of any keen demand from outside; but the keenness

of the demand is measured by the price offered, and the price offered was exceptionally high; and as the crop is stated to have been much better than in the two preceding years, there must have been a considerable surplus available for exportation. The same remarks apply to Beerbhoom, where a similar explanation is given, in spite of an 18-anna crop and high prices elsewhere. In Hooghly it is said that, owing to high prices, the trade in rice and paddy was not brisk. High prices are usually associated with brisk trade, but probably the explanation is that, owing to the poorness of the crop, only a small surplus was left for export. The continued increase in the importation of European piece-goods is satisfactory as an indication of the prosperity of the people and of the increasing variety in their wants. The only other point calling for remark under this head is the statement that in Howrah the trade in hides is decaying.

5. Of the administrative changes, the most important was the appointment of an Excise Commissioner, a change, however, which affected other Divisions as much as

Administrative changes.

Burdwan. The others referred to are the abolition of the Assensole Municipality, the establishment of an independent Bench at Rampore Hât, the reduction in the members of the Midnapore District Board from 36 to 24, and the investment of three of the Honorary Magistrates of the First Hooghly General Bench with powers of a second class Magistrate to sit and try cases singly. As regards the share taken by Mahomedans in the administration, the Lieutenant-Governor is glad to observe a slight increase in the percentage employed, but at the same time he is compelled to call attention to the remark of the Commissioner, who says, with reference to the difficulty of getting qualified Mahomedan candidates:—"The moral of the matter is that the Mahomedans must bestir themselves and renew their exertions instead of crying to Government to help them to appointments for which they are not found to be equally fitted with others."

6. There was a general increase of crime during 1889, both cognizable and non-cognizable, in all the districts of the Division

Police.

except Beerbhoom, where there was a decrease of one cognizable and 262 non-cognizable cases. Regarding this the Commissioner says that the increase is due chiefly to the high prices which prevailed throughout the year and is most marked in offences against property; and that this class of offence increased even in Beerbhoom, which otherwise shows a nominal decrease. This state of affairs is far from satisfactory, and, moreover, the explanation cannot be held to be sufficient, for a distinction must be drawn between high prices the result of scarcity in the Division and high prices due to increased demand outside the Division. The crops throughout the Division were much better than in the two preceding years, and it is obviously an advantage to an agricultural population to sell their produce at high prices. In this connection it is significant that there was an increase in offences against property even in Beerbhoom, where the rainfall was evenly distributed and the rice crop was an 18-anna one. The remarks of the Commissioner on the rural police and on the success of Mr. Munro, District Superintendent of Police of Midnapore, in dealing with them are interesting and will be communicated to the Judicial (Police) Department for disposal.

7. Under the head of Criminal Justice the Commissioner is able to give, the Lieutenant-Governor is glad to observe, a favourable and encouraging account of the work done by

Criminal Justice.

the Benches of Honorary Magistrates and of the extension of the system. Under this head also he makes the following remarks on the subject of criminal fines:—

"The subject of the realization of criminal fines is, I think, one which deserves more attention than it ordinarily receives at the hands of Magistrates. There is a very large outstanding balance of fines unrealized in this Division, and steps have recently been taken to write off all sums found to be irrecoverable after repeated attempts. This balance was Rs. 35,274 on the 31st March 1890. In this connection the quarterly examination of the thana fine registers prescribed by the fine rules is a most important duty, which should not be delegated as a matter of course to Subordinate Magistrates. If, for the purpose of this examination, the Court Sub-Inspector were made to give a detailed list of the fines outstanding in his books (thana by thana), a great impetus would, I think, be given to the police in this important branch of their work. Subordinate Magistrates who are in the habit of giving wholly inadequate sentences of imprisonment often impose fines which are quite beyond the

present or future possible means of the accused. The enquiries periodically made as to the assets of such persons not only needlessly irritate and disgrace them but also impose a useless and hopeless task upon the police."

These remarks will be communicated for disposal to the Judicial Department, to which their consideration properly belongs.

8. The result of the land revenue administration was fairly satisfactory, 93.48 of the total demand being collected within

Land Revenue.

the year, and the percentage of total collections on current demand being 105.34. The heaviest arrears occurred in the districts of Hooghly and Midnapore, that in the latter being due to successive bad seasons. As in the previous year, use was made of the Eden Canal for irrigation purposes and about 30,000 beeghas of rice lands were irrigated from it. As regards the Tenancy Act, it is said that no burning questions have arisen under it, that the special provisions for registering transfers of permanent tenures are gradually falling into disuse, and that the number of applications for survey and record of rights is on the increase. The only district in which the charge of wards' estates was heavy was Midnapore, and in that district it was very heavy, there being at the close of the year 15 estates under the Court, with a gross annual income of about Rs. 3,57,500.

In this connection may be noted the enormously increased extent to which the public availed themselves of the post-office for the remittance of land revenue. Against 7,890 orders covering Rs. 45,845 in 1888-89, the Postal Department issued 20,990 for remittances aggregating Rs. 1,34,654. The Commissioner adds that figures to show the working of the similar system for the payment of rent are not available, but the local officers state that it has been a partial success, in spite of the opposition of the zemindars and their local agents.

9. There was an increase of 2.3 per cent. in the revenue from stamps and of 3.5 per cent. in that from income-tax. Regarding

Stamps, Income-tax and Excise.

the latter the Commissioner remarks:—"These results are, I consider, highly creditable to the district officers generally, the more so as they were obtained without any complaints being made of harsh and inquisitorial measures with the issue of a smaller number of processes and with a percentage of only 2.1 objections on the part of the 8,466 persons assessed." On the other hand there was a falling off under Excise, due to the outstill being replaced by the sudder distillery system.

10. Under the head of Railways and other Public works may be noted the opening of the Bengal-Nagpur Railway as far as Chakhardharpur and the completion of the Damu-

Communications.

dar bridge. Under the head "Communications" the Commissioner gives figures showing the large amount spent on repairs as compared with the small expenditure on original works and village roads, and remarks as follows:—

"The great difficulty of all the District Boards is the fixed and inelastic nature of their income and the large mileage of roads which they have to maintain. They are like parents with large and increasing families, but with fixed incomes. Each mile of road newly made or metalled involves a fixed charge for maintenance, and thus adds to the financial difficulties of the future. The maintenance of village roads is less expensive than that of the main lines of communication, both metalled and unmetalled; but the want of a proper establishment to supervise the work on the former is, I think, the principal reason why so little money is spent on them. The District and Local Boards hesitate to spend money on work which they cannot properly check or control, and they fear to entrust it to local agents in whose integrity and supervision they have no confidence."

Village roads, however, have this great advantage, that the land required can usually be obtained for nothing, whereas the people hesitate about giving, and usually will not give, the land and roadside lands for a road much broader than they require. In sub-divisions, the Sub-divisional Officer will almost invariably give a good account of money made over to him for village roads which he is given free liberty to spend, and in sudder sub-divisions the members of the Board should, with the assistance of the District Engineer, be able to look after the work themselves and to see that the money is properly spent.

11. In paragraph 68 *et seq.* of his report the Commissioner deals with the administration by District Boards of the grant for primary education. Although there was a

Education.

divisional increase both in the number of pathshalas and of boys attending them, the results cannot, on the whole, be regarded as very satisfactory, for there was a decrease both in Midnapore and in Howrah; and in the case of girls' schools, there was a decrease both of schools and scholars in Burdwan and in Howrah, while in Midnapore it is reported that four girls' schools were closed "owing to the apathy of the managers." In Bankoora, however, the administration has been much more successful and the prospects are brighter. There it is said that, whereas in 1887-88 there were nearly 49 girls' schools with 920 pupils, there were last year 121 such schools with 2,054 pupils. A great part of this increase is attributed to the establishment of separate girls' schools in the place of mixed schools. It is probable that if the Magistrate and Chairman of the District Board takes an interest in primary education and shows that he does so, the apathy of the managers will disappear; and it is to the absence of such an interest that the Lieutenant-Governor feels compelled to attribute, to some extent, the failure in this branch of the administration in the districts referred to.

12. As regards local self-government institutions the verdict of the Commissioner is on the whole favourable. He says that the working of the District and Local Boards and of the municipalities in his Division is pronounced by the district officers generally to have been successful; and he adds that the attendance of the members has generally improved, and that they have been of much use as consultative bodies. He also makes the following general remarks on the subject:—

"The successful working of local self-government institutions depends quite as much upon the character and abilities of the Chairman, Vice-Chairman, and permanent officials as a district does on its staff from the Magistrate-Collector downwards. The position of an official Chairman is altogether a stronger and more popular one than that of a non-official. The latter's every public act is regarded with distrust and suspicion: parties are formed to thwart his measures and question his executive action, and his position is by no means a bed of roses. It says much for the future of local self-government that many such difficulties have been bravely faced and overcome. The names of Baboo Lalit Mohan Sing, Vice-Chairman of the Hooghly District Board; of Baboo Siva Narain Mookerjee, Chairman of the Uttarparah Municipality; and of Baboo Nalinaksha Basu, Chairman of the Burdwan Municipality and Vice-Chairman of the District Board, whose services have recently been specially recognised by the title of Roy Bahadoor, deserve special mention in this connection.

"I would also mention Baboo Eshan Chunder Mitter, the Chairman of the Hooghly Municipality. With the exception of the Baidyabati Municipality in the Hooghly district, none of the local institutions have shown any wrong-headedness or impatience of control. On the contrary they have, as a rule, loyally accepted the advice tendered them by the officers of Government both in matters of finance and of general administration. Not the least promising feature of the present system of local self-government, and one which gives much hope for the future, is the fact that its defects are seen and fully admitted by all classes of the people. The strength of purpose and the moral courage to apply the remedy—which is the subordination of all personal and party feeling to the public good—though wanting at present, will, it is hoped, be developed gradually in the future."

13. The Commissioner remarks that the conduct of zemindars has been, on the whole, satisfactory and singles out for favourable notice Baboo Raghu Nath Panja in the district of Bankoora and the zemindars of Motiari and Ajudhya in the same district. Only one zemindar, he says, deserves specially unfavourable notice—Mohant Gopal Das of Beerbhoom, whose estates are being settled under the Tenancy Act.

14. A copy of the remarks regarding the conduct of officers will be forwarded to the Appointment Department for record. But the Lieutenant-Governor will take this opportunity of acknowledging the services rendered by Mr. H. Lee, c.s., both in Burdwan and Midnapore, which have led to his selection for an important charge elsewhere. Mr. Cooke has also done well in the Hooghly district. The Commissioner writes of his Personal Assistant, Babu Pran Kumar Das, as an excellent officer, hard-working and thoroughly reliable.

By order of the Lieutenant-Governor of Bengal,

C. E. BUCKLAND,

Offg. Secretary to the Govt. of Bengal.

**RESOLUTION ON THE TRIENNIAL REPORT OF THE SANITARY
COMMISSIONER FOR BENGAL ON THE WORKING OF
THE VACCINATION DEPARTMENT DURING THE
THREE YEARS 1887-90.**

MUNICIPAL DEPARTMENT—SANITATION.

Darjeeling, the 20th October 1890.

RESOLUTION.

READ—

The Triennial Report of the Sanitary Commissioner for Bengal on the working of the Vaccination Department during the three years 1887-88, 1888-89, and 1889-90.

Read also—

The annual statistical returns for 1888-89, with the brief notes accompanying them, and the report of the previous year incorporated with the Sanitary Report, together with the Resolutions recorded thereon.

This is the first occasion on which, under instructions contained in the Resolution of the Government of India, Home Department, No. 28—1579-95, dated 15th July 1887, a triennial report on the working of the Vaccination Department in Bengal has been submitted. Dr. Gregg's report, though commendably moderate in length, gives a sufficiently clear view of the working of the Department during the past three years, and the diagrams and maps which accompany it are both intelligible and instructive.

2. The system of administration of the Department remained unchanged; but during the past year the amalgamation of the Sonthal Pergunnahs Circle with the Darjeeling Circle has reduced the number of circles from eight to seven. The following table shows the number of officers and vaccinators working under the Department during each of the three years under report:—

		INSPECTING STAFF.					OPERATORS.				
		Superintendents.	Deputy Superintendents.	Inspectors.	Head Vaccinators, &c., &c.	Total of Inspecting Officers.	Vaccinators.		Apprentices.		Total.
							Government or paid.	Licensed.	Government or paid.	Licensed.	
In Vaccination Circles	1887-88 ...	8	12	98	21	139	210	1,371	40	598	2,109
	1888-89 ...	8	12	93	10	124	192	1,340	64	731	2,320
	1889-90 ...	7	14	110	21	145	179	1,480	21	888	2,378
In municipalities and dispensaries.	1887-88 ...	...	...	...	...	...	208	14	...	...	222
	1888-89 ...	...	...	...	...	...	240	6	...	...	246
	1889-90 ...	...	...	...	...	...	245	7	...	...	252
Grand Total	1887-88 ...	...	12	98	21	126	419	1,325	40	898	2,363
	1888-89 ...	...	12	93	19	124	432	1,333	46	731	2,564
	1889-90 ...	7	14	110	21	145	424	1,487	21	888	2,530

3. The average annual number of operations performed during the past three years was 1,790,098, or 719 to each vaccinator employed; and the average annual percentage of persons vaccinated to the whole population was 2·9. Of the two agencies, the paid and the licensed, the former were far the more active, performing on an average 1,475 operations each to 671 of the licensed vaccinators—a result which is probably due to the fact that the people obtain their services free and are therefore more willing to employ them.

4. The reported proportion of successful operations was in the case of primary operations 99·38 and 95·30 in vaccination circles and municipalities, dispensaries, &c., respectively, and in the case of secondary operations 34·08 and 64·04. Dr. Gregg reports that the percentage of successful secondary operations in municipalities is much too high to be correct, and that either many cases returned as secondary were in fact primary, or that the rate of success was not truly recorded. The question of the accuracy of the reported rate of success was raised by the Government of India in Mr. Lyall's letter No. 327, dated 17th October 1889, in which comment was made on the small proportion of operations checked by inspecting officers. The following table shows, however, that during each of the three years under report the number of operations checked by supervising officers of one class or another has always

exceeded 70 per cent. The Lieutenant-Governor attaches much importance to these inspections, and hopes that future years will show a larger percentage, especially on the part of Superintendents:—

	Number of operations.	SUPERINTENDENTS.		DEPUTY SUPERINTENDENTS.		ALL OTHER INSPECTING OFFICERS.	
		Number of cases inspected.	Percentage.	Number of cases inspected.	Percentage.	Number of cases.	Percentage.
1887-88	1,639,694	155,024	9'50	144,917	8'85	939,602	56'81
1888-89	1,756,354	133,881	7'61	168,025	9'44	1,033,568	58'79
1889-90	1,708,988	89,869	4'78	189,939	11'15	973,346	57'14

5. Dr. Gregg dwells at some length on the very important question of the results of vaccination as shown by the number of deaths from small-pox in various areas, compared with the proportion of population in those areas protected by vaccination; and illustrates these results by several useful diagrams. The following table shows the proportion of deaths from small-pox during the last seven years in areas under vaccination compared with those not under vaccination:—

	Number of areas which were under vaccination in—							Death-rate from small-pox per mille of population.						
	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.
Areas under vaccination	430	463	473	488	507	542	548	18	15	16	12	14	10	14
.. not under vaccination	149	116	107	91	75	35	29	23	53	26	16	16	19	15

It is noticeable that though the death-rate in protected areas is, as a rule, much lower than in those which are not under vaccination, the results of the last two years are far from satisfactory. The table shows, moreover, a marked increase in the mortality from small-pox in each of the last three years. In this connection Dr. Gregg remarks that "the protection of rural areas can never be placed on a proper footing until the Compulsory Vaccination Act in a suitably modified form be extended to them," and promises a full report on the subject, which is awaited by Government.

6. The total cost of vaccination during the three years was Rs. 4,97,833-0-11, giving a yearly average of Rs. 1,65,944-5-7. The average cost of each successful operation was one anna six pie against one anna eight pie in the three years 1884—87. It was highest in Calcutta, where each successful operation cost 15 annas 7 pie, and lowest in the Eastern Bengal Circle, where the cost was only 7 pie.

7. The attitude of the people towards vaccination is, according to Dr. Gregg, one of passive acceptance tempered apparently by a considerable but fortunately diminishing amount of passive obstruction. The issue of lymph in tubes from the Animal Vaccination Depot in Calcutta to the mofussil has proved a failure owing, in Dr. Gregg's opinion, rather to carelessness in storing at the depot than to any physical causes. Dr. Gregg speaks most unfavourably of the whole working of the depot, which is under the supervision of the Superintendent, Metropolitan Circle. It is hoped that, when the projected Darjeeling depot is in working order, the supply of animal lymph from Darjeeling and Calcutta will be sufficient to enable the Bengal vaccine establishment to dispense with lymph obtained from the human subject.

8. The Lieutenant-Governor is glad to notice the excellent work done by Moulvie Tajamal Hossein, Deputy Superintendent of the Bhagulpore Division. The remarks made by the Sanitary Commissioner on the working of his subordinates in this Department will be communicated to the Appointment Department for record.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

DISTRICT ROAD FUND.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Road Cess.

No. 3685R.C.

Calcutta, the 31st October 1890.

READ—

Letter from the Accountant-General, Bengal, No. ^{L.P.}₂₅₄, dated the 11th October 1890, submitting an abstract of receipts and expenditure of the several District Road Committees in Bengal for the quarter ending 30th June 1890.

RESOLUTION.—The Lieutenant-Governor directs that the accounts of the receipts and expenditure of the several District Road Committees in Bengal for the first quarter of the year 1890-91 be published in the *Calcutta Gazette* and circulated to the officers concerned.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the abstract of receipts and expenditure, be published in the Supplement to the *Calcutta Gazette*.

Ordered also that a copy of this Resolution, and of the abstract referred to, be forwarded to the Commissioners of the Rajshahye, Bhagulpore, Chit-tagong and Chota Nagpore Divisions, to the Superintending Engineers of the Eastern and Western Circles, and to the Financial Department of this Government, for information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secretary to the Govt. of Bengal.

DISTRICT

Statement of Receipts and Expenditure of the several District Roads

RECE

DISTRICTS.	Balance in treasury on 1st April 1890.	PROVINCIAL RATES.				Interest on arrears of road cess.	PUBLIC WORKS.			IRRIGATION.	MISCELL.	
		Cess on lands.	Cess on mines.	One per cent. road cess.	Total.		Road tolls.	Ferry tolls.	Total.		Canal tolls.	Rent of serais and staging- bungalows.	Fees, fines and forfeitures.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.
Cess Districts.												
Darjeeling	6,615 7 0	2,575 1 4	55 0 11	.....	3,650 8 8	.....	.....	.....	.....	.....	.....	.....
Hazaribagh	35,315 15 10	4,892 3 10	17 12 9	.....	4,910 0 7	15 13 9	.....	.....	.....	.....	13 8 0	2,734 4 0
Lohardugga	19,818 15 10	14,624 7 1	.....	.....	14,624 7 1	95 15 9	.....	.....	.....	.....	7 0 0	284 0 0
Manbhoom	23,422 2 0	3,153 4 3	811 9 11	.....	3,964 14 2	21 13 6	.....	.....	.....	.....	466 6 2	0 0 0
Total	85,182 8 8	25,145 0 6	894 7 7	.....	26,029 8 1	133 10 0	.....	.....	.....	.....	426 14 2	3,314 4 0
Non-cess Districts.												
Chittagong Hill Tracts	5,340 5 8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sonthal Pergunnahs	17,275 0 8	.....	.....	.....	.....	.....	.....	.....	.....	.....	75 8 0	.....
Singbhoom	6,370 1 3	.....	0 9 6	.....	0 9 6	.....	.....	.....	.....	.....	1 0 0	.....
Total	29,845 7 3	.....	0 9 6	.....	0 9 6	.....	.....	.....	.....	.....	79 8 0	.....
GRAND TOTAL	1,14,067 15 10	25,145 0 6	895 1 1	.....	26,030 1 7	133 10 0	.....	.....	.....	.....	506 6 2	3,314 4 0

EXPEN

DISTRICTS.	REFUNDS.			PROVIN- CIAL RATES.	ADMINISTRATION-			STATION- ERY.	PUBLIC				
	Cess.	Other receipts.	Total.	Establishment and con- tingencies of office of collection.	Establishment and con- tingencies of Committee's office.	Percentage cost of es- tablishment for offices of account and control.	Total.	Stationery and printing.	Original works.	Repairs.	Establi- ment.	Tools and plant.	Toll and ferry establish- ment and contingencies.
	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.
Cess Districts.													
Darjeeling	.....	.....	.....	331 9 0	268 12 0	29 6 0	428 2 0	.....	.....	1,127 9 2	248 5 1	.....	.....
Hazaribagh	.....	.....	.....	1,092 9 10	256 0 0	340 15 2	503 15 2	51 2 0	.....	4,314 13 4	1,840 6 3	271 12 0	.....
Lohardugga	.....	.....	.....	2,285 1 2	169 1 2	48 1 2	217 2 8	15 15 2	150 0 0	936 1 7	2,337 2 6	37 2 2	.....
Manbhoom	.....	.....	.....	262 15 2	573 1 7	208 13 1	381 14 8	127 4 9	.....	5,229 11 9	1,610 2 2	.....	.....
Total	.....	.....	.....	4,971 12 2	1,166 14 10	585 3 8	1,726 2 6	194 6 0	150 0 0	11,008 3 2	6,156 0 0	306 15 2	.....
Non-Cess Districts.													
Chittagong Hill Tracts	.....	.....	.....	.....	13 11 7	.....	13 11 7	96 0 10	.....	248 11 0	1,227 2 3	.....	.....
Sonthal Pergunnahs	.....	.....	.....	.....	249 14 0	.....	249 14 0	.....	.....	2,523 16 2	1,550 5 6	37 7 0	.....
Singbhoom	.....	.....	.....	.....	113 6 8	.....	113 6 8	132 10 6	617 10 10	44 15 10	740 5 0	9 10 0	.....
Total	.....	.....	.....	.....	377 0 0	.....	377 0 0	168 11 4	517 10 10	2,517 10 7	3,548 2 9	77 1 0	.....
GRAND TOTAL	.....	.....	.....	4,971 12 2	1,543 14 10	585 3 8	2,107 2 6	363 1 4	647 10 10	14,425 14 0	9,694 2 9	386 6 2	.....

FORT WILLIAM,

The 30th September 1890.

ROAD FUND.

Committees for the First Quarter of the year 1890-91, ending 30th June 1890.

PTS.

Miscellaneous.	Total.	Grant from Government.	EXPENDITURE.			Total receipts.	Balance of imprests in hands of Engineers and others, decreased.	Balance of uncashed cheques, increased.	Total receipts, including balance.	Outlay.	Balance in treasury on 30th June 1890.
			Advance.	Deposits.	Total.						
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
6 4 0	2,735 0 0	890 5 7	1,621 14 7	.....	1,621 14 7	5,672 6 5	.....	.....	11,687 13 5	4,108 0 0	7,579 13 5
1 8 0	592 8 0	1,044 9 1	1,789 0 8	.....	1,789 0 8	9,489 2 2	.....	.....	44,815 2 0	16,164 14 10	28,650 8 2
1 7 3	415 13 5	.....	85 8 0	28 0 0	81 8 0	10,938 15 11	.....	.....	30,767 15 9	12,106 5 8	18,661 10 4
			184 1 9	1,100 0 0	1,284 1 9	5,686 9 10	1 10 9	.....	29,120 6 7	8,601 0 6	20,519 6 1
3 3 3	3,740 5 5	2,662 1 10	3,399 9 6	1,196 0 0	4,725 9 6	57,197 2 4	1 10 9	.....	1,22,581 5 9	40,980 4 9	81,601 1 0
136 15 2	7,942 16 2	.....	.....	777 0 0	777 0 0	8,119 15 2	.....	.....	13,460 4 5	5,432 3 3	8,028 1 2
8 8 0	174 1 0	.....	648 0 0	.....	648 0 0	822 1 0	406 3 0	.....	18,505 4 8	7,051 3 9	11,454 0 11
27 8 0	280 8 0	.....	.....	19 0 0	10 0 0	291 1 0	.....	.....	6,031 2 9	1,900 1 2	4,131 1 7
171 0 2	7,797 8 2	.....	648 0 0	787 0 0	1,435 0 0	9,333 1 8	406 3 0	.....	38,696 11 10	14,412 8 2	24,284 3 8
128 3 5	11,543 13 7	2,662 1 10	4,247 9 0	1,913 0 0	6,160 9 0	46,430 4 0	409 13 9	.....	1,60,905 1 7	55,392 12 11	1,05,513 4 9

FUTURE.

Total.	Canal toll establishment and contingencies.	MISCELLANEOUS.			Contribution to Provincial Government.	EXPENDITURE ACCOUNT.			Total expenditure.	Balance of imprests in hands of engineers and others, increased.	Balance of uncashed cheques, decreased.	Total outlay.
		Staging-bungalow establishment and contingencies.	Staging-bungalow petty construction and repairs.	Miscellaneous.		Advance.	Deposits.	Total.				
Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.
1,475 14 10	1,370 0 0	.....	1,370 0 0	3,605 2 10	.....	502 13 2	4,108 0 0
5,436 15 7	37 13 0	.....	.....	37 13 0	1,045 9 8	488 0 0	1,533 9 8	10,565 0 3	.....	5,599 14 7	16,164 14 10
3,440 6 4	61 0 0	8 0 0	31 8 0	94 8 0	287 8 0	1,341 4 1	1,578 12 1	7,631 13 7	.....	4,474 7 10	12,106 5 8
6,839 13 11	291 0 0	.....	291 0 0	248 0 0	180 0 0	398 0 0	8,601 0 6	.....	.....	8,601 0 6
18,183 2 8	98 12 0	298 0 0	31 8 0	423 4 0	2,521 1 8	1,979 4 1	4,900 5 9	30,403 1 2	.....	10,577 3 7	40,980 4 9
1,365 13 9
4,141 14 9	59 2 0	.....	.....	59 2 0	408 0 0	300 0 0	300 0 0	1,855 10 2	.....	3,596 9 1	5,452 3 3
1,512 12 8	67 5 7	.....	2 14 0	70 3 7	200 0 0	80 0 0	280 0 0	1,900 1 2	.....	2,192 5 0	7,051 3 9
6,900 9 2	126 7 7	.....	2 14 0	129 5 7	908 0 0	380 0 0	988 0 0	8,613 10 1	.....	5,788 14 1	14,412 8 2
22,183 11 10	226 3 7	298 0 0	34 6 0	552 9 7	3,529 1 8	2,359 4 1	5,888 5 9	29,026 11 3	.....	16,306 1 8	45,332 12 11

C. R. KIERNANDER,

Offg. Accountant-General, Bengal.